CDC's Emerging Infections Program
CDC/USDA/FDA Foodborne Diseases Active Surveillance Network
FoodNet Steering Committee Conference Call

Date: Thursday, July 12, 2007 (2:00-3:00pm ET)
Number: 1-866-793-9108; Passcode: 2074317

A. Administrative
   1. Update on manuscripts
   2. ICEID March 16-19, 2007
      a. Abstract submission timeline
   3. Vision Meeting 2008
      a. Tentative dates: March 6-7, 2008
      b. Scientific Day: March 5, 2007

B. Surveillance
   1. Performance standards

C. Working Groups and Special Studies
   1. Attributions working group
   2. Outbreak working group

D. Special study tables
   1. Clinical outcomes
   2. *E.coli* Cohort study
   3. Select *Salmonella* serotypes

E. Data request
   1. *S.* Heidelberg data from Oregon 2004-2005 (Kristin Holt)

F. Surveillance data
   1. Active
   2. Outbreak
   3. HUS

G. Upcoming FoodNet conference calls, meetings, and deadlines

1. Wednesday,	July 25th	Selected *Salmonella* serotypes study	3:00-4:00pm
2. Thursday,	July 26th	Antibiotic resistance working group	1:00-2:00pm
3. Thursday,	July 26th	FoodNet coordinator	2:00-3:00pm
4. Thursday,	August 2nd	Attributions working group	11:00-12:00pm
5. Thursday,	August 9th	STEC/HUS working group	12:00-1:00pm
6. Thursday,	August 16th	Outbreak working group	3:00-4:00pm
7. Friday,	July 20th	FoodNet Data Transmission Deadline	

DRAFT

FoodNet Active Manuscripts

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
9							
	461	Jones, Timothy F.	Scallan, Elaine, Angulo, Fredrick J.	FoodNet: Overview of a Decade of Achievement	Foodborne Pathogens and Disease	6/29/2007	
	121	Samuel, Michael C.	Vugia, Duc J., Koehler, Kathleen M., Marcus, Ruthanne, Deneen, Valerie C., Damaske, Barbara, Shiferaw, Beletshachew, Hadler, James L., Henao, Olga L., Angulo, Fredrick J.	Consumption of Risky Foods Among Adults at High Risk for Severe Foodborne Diseases: Room for Improved Targeted Prevention Messages	Journal of Food Safety	6/29/2007	Journal of Food Safety
	465	Scallan, Elaine		Activities, Achievements, and Lessons Learned During the First 10 Years of FoodNet	CID	6/29/2007	Published - March publication
	113	Varma, Jay K.	Samuel, Michael C., Marcus, Ruthanne, Hoekstra, Robert M., Medus, Carlota, Segler, Suzanne D., Anderson, Bridget J., Jones, Timothy F., Shiferaw, Beletshachew, Haubert, Nicole, Megginson, Melanie, McCarthy, Patrick V., Graves, Lewis M., Van Gilder, Thomas J., Angulo, Fredrick J.	Listeria Monocytogenes Infection From Food in the Regulatory Era: A Case-Control Study of Risk Factors for Sporadic Illness in the United States	CID	6/29/2007	Published Jan. 2007
	107	Voetsch, Andrew C.	Angulo, Fredrick J., Jones, Timothy F., Moore, Matthew R., Nadon, Celine, McCarthy, Patrick V., Shiferaw, Beletshachew, Megginson, Melanie, Hurd, Sharon, Anderson, Bridget J., Cronquist, Alicia B., Vugia, Duc J., Medus, Carlota, Segler, Suzanne D., Graves, Lewis M., Hoekstra, Robert M., Griffin, Patricia M., EIP FoodNet Working Group	Reduction in the Incidence of Invasive Listeriosis in the FoodNet Sites, 1996-2003	CID	6/29/2007	Published Jan. 2007
8							
	394	Nelson, Jennifer M.	Nadle, Joelle, Daniels, Allison, Clogher, Paula, Gillespie, Jennifer, Furuno, Jon P., Plantenga, Melissa, Bernarczyk, Robert, Ingram, Amanda	FoodNet Survey of Food Use and Practices in Long-Term Care Facilities		7/10/2007	Accepted at Journal of Food Protection

0=proposal, 1=analysis, 2=writing, 3=draft being reviewed by coauthors, 4=incorp coauthor comments, 5=NCID/CDC clearance, 6= incorp NCID/CDC comments, 7=at journal, 8=in press, 9=published, 10=posted to website

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	117	Patrick, Mary	Griffin, Patricia M., Mead, Paul S., Voetsch, Andrew C.	The Effectiveness of Recall Notification: Community Response to a Nationwide Recall of Hot Dogs and Deli Meats		6/29/2007	Accepted to Journal of Food Protection
7							
	363	Hassan,Valley	Kirk, Martyn D., Scallan, Elaine, Angulo, Fredrick J., Hall, Gillian,	Reporting Rates of Campylobacter Infections in Australia and the United States - Exploring Reasons for the Difference		7/10/2007	
	325	Shiferaw, Beletshachew		Comparison of Three Surveillance Systems for Hemolytic Uremic Syndrome in Oregon		6/29/2007	Submitted to AJPH.
5							
	22	Crump, John A.	Crump, John A., Joyce, Kevin W., Vugia, Duc J., Megginson, Melanie, Segler, Suzanne D., Hurd, Sharon, Luedeman, Jeff, Shiferaw, Beletshachew, Hanna, Samir S., Stevenson, Jennifer E., Angulo, Fredrick J.	Clinical Consequences of Typhoid Fever due to Salmonella Typhi with Decreased Susceptibility to Ciprofloxacin		6/29/2007	
	381	Demma, Linda	Vugia, Duc J., Hurd, Sharon, Segler, Suzanne D., Kielbauch, Julie, Leano, Fe, Dumas, Nellie B., Hatch, Julie, Hanna, Samir S., Angulo, Fredrick J.,	Campylobacter species in FoodNet and NARMS 1997-2004: is the incidence of Campylobacter coli infection increasing?		6/29/2007	
	124	Dunne, Eileen F.	Griffin, Patricia M., Henao, Olga L., Bender, Jeffrey B., Beletshachew, Shiferaw, Vugia, Duc J., Dembek, Zygmunt F., Wesolowski, Laura G., Carter, Michael A., Zansky, Shelley M., Boothe, Effie J., Burnite, Steve, Wells, Joy G., Bibb, William, Mead, Paul S., Henao, Olga L., EIP FoodNet Working Group, Snider, Cynthia J.	Pediatric Hemolytic Uremic Syndrome in the United States, 1997-2002: A Study of 379 Cases		7/10/2007	
	508	Haley, Clinton C.	Hedberg, Katrina, Cieslak, Paul R., Scallan, Elaine, Ong, Kanyin Liane, Marcus, Ruthanne, Shin, Sam, Cronquist, Alicia B., Gillespie, Jennifer, Jones, Timothy F., Shiferaw, Beletshachew, Fuller, Candace, Edge, Karen, Anderson, Bridget J., Ryan, Patricia A., Mintz, Eric D.	Sporadic Shigellosis: Population-Based Risk Factors Revealed, FoodNet, 2005		6/29/2007	

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
	26	Majowicz, Shannon E.	Scallan, Elaine, Hall, Gillian, Banerjee, Anyana, Kirk, Martyn D., Angulo, Fredrick J.	Respiratory Symptoms Among Persons with Gastrointestinal Illness		6/29/2007	
	459	Voetsch, Andrew C.	Poole, Charles, Hedberg, Craig W., Ryder, Robert W., Weber, David J., Angulo, Fredrick J.	The effect of alternative control selection in the FoodNet case-control study of sporadic Salmonella serotype Enteritidis using other serotypes as a comparison group		7/10/2007	
4							
	432	Maldonado, George		Blending Project		7/10/2007	
	341	Rosenblum, Ida E.	Lynch, Michael, Cronquist, Alicia B., Phan, Quyen, Vugia, Duc J., Burnett, Cindy, Morse, Dale L., Keene, William E., Edwards, Leslie, Swanson, Ellen, Jones, Timothy F., EIP FoodNet Working Group,	Factors Associated with Confirming an Etiology During Foodborne Outbreak Investigations, FoodNet Sites, 2001-2004		7/10/2007	
3							
	103	Ailes, Elizabeth	Demma, Linda, Scallan, Elaine	Continued Decline in the Incidence of Campylobacter Infections, FoodNet 1996-2006		7/10/2007	
	109	Demma, Linda	Snider, Cynthia J., Shiferaw, Beletshachew, Vugia, Duc J., Hurd, Sharon, Zansky, Shelley M., Scheftel, Joni, Voetsch, Andrew C., Angulo, Fredrick J., Griffin, Patricia M., EIP FoodNet Working Group	Risk Factors for Developing Hemolytic Uremic Syndrome or Death Among Persons with Escherchia coli O157 Infection, FoodNet sites, 1997-2002			
	491	Guo, Chuanfa	Hartnett, Emma, Harman, Jane, Ong, Kanyin Liane, Naugle, Alecia L., Bennett, Patricia, Hoekstra, Robert M., Cieslak, Paul R., Holt, Kristen G., Schlosser, Wayne D., Rose, Bonnie E., Schroeder, Carl M., Scallan, Elaine, Angulo, Fredrick J.	Human Infections from Salmonella in Meat, Poultry, and Eggs, United States, 1998 - 2003: Estimates from a Bayesian Model		7/10/2007	
	331	Long, Cherie	Hayes, Tameka, Vugia, Duc J., Ryan, Patricia A., Scheftel, Joni, Shiferaw, Beletshachew, Jones, Timothy F., Demma, Linda, EIP FoodNet Working Group	Yersenia pseudotuberculosis infections in FoodNet, 1996-2005		6/29/2007	
	343	Sharp, Lydia	Tobin-D'Angelo, Melissa, Shuler, Carrie, Voetsch, Andrew C.	Sporadic Salmonella serotype Javiana in Georgia: An Emerging Zoonotic Disease?		6/29/2007	

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Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
2							
	462		Demma, Linda, Hoekstra, Robert M., Angulo, Fredrick J.	Higher Incidence of Escherichia coli O157:H7 Infection in Rural Counties and Possible Association with Animal Contact		7/10/2007	
	344	Henao, Olga L.	Ryan, Patricia A., Scallan, Elaine, Choudhuri, Julie, Norton, Dawn M., Edge, Karen, Ryan, Patricia A., Tobin-D'Angelo, Melissa, Nelson, Jennifer M., Hanna, Samir S., Jones, Timothy F., Angulo, Fredrick J., EIP FoodNet Working Group	Proportion of Visits to Health Care Providers Resulting in Request of Stool Samples: Data from the National Ambulatory Medical Care Survey (NAMCS) and the Foodborne Diseases Active Surveillance Network (FoodNet) Population Survey		6/29/2007	
	386	Hurd, Sharon	Demma, Linda, Tong, Xin, Cronquist, Alicia B., Segler, Suzanne D., Kielbauch, Julie, Swanson Laine, Ellen, Smith, Glenda, Hatch, Julie, Hanna, Samir S., Fitzgerald, Collette, EIP FoodNet Working Group, Shin, Sam	Clinical Laboratory Practices for the Identification of Campylobacter in FoodNet Sites: Do Differences Explain Variation in Incidence Rates?		6/29/2007	
	101	Scallan, Elaine	Vugia, Duc J., Cronquist, Alicia B., Marcus, Ruthanne, Thomas, Stephanie M., Blythe, David, Fuller, Candace, Zansky, Shelley M., Cieslak, Paul R., Jones, Timothy F.	Burden of Bacterial Foodborne Illness in the United States		7/10/2007	

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FoodNet Performance Standards
Proposed Changes

Proposed revisions

#4-5: *Salmonella* and *E.coli* interviewed for international travel history:
- Change target level from 85% to 90%

#6: Outbreak reporting:
- Incorporate eFORS number for non-foodborne outbreaks **of *E.coli* O157.**

#48-49: FoodNet cases linked to national case report form data:
- Assess whether or not form was **submitted**, not whether or not it has been linked.

Proposed deletions

#21: Isolates with serotype/species information in active surveillance: *Listeria*
- Reason - speciation is completed and entered at CDC.

#34-40: NARMS isolates linked to FoodNet cases (#34-40) and
41-47: FoodNet cases linked to PulseNet (#41-47)
- Reason - assesses linking at CDC, not site performance.

Proposed additions

1) HUS case report form (to be assessed at data closeout)
- Completeness of mode of ascertainment variables (Q12A and Q13A): Target: 100%
- Completeness of diarrheal status variables (Q28a): Target: 100%

2) FoodNet cases linked to national case report form data (to be assessed at data closeout)
- Submission of a *Listeria* form. Target: 100%.

3) Completeness of race information:
- Proposal: Assess for all pathogens. Target level: 75%.
- Alternate proposal: Assess for select pathogens only. Target level: 75%.

Still under discussion

#2-3: Cases with unknown outcome
- Should we have a single standard to measure outcome (instead of dividing into hosp and ER/outpatient cases)? If so, what is appropriate target level? Site infrastructure plays into quality and completeness of case follow up.

#9: Initial eFORS report within two months of first onset (#9):
- Suggested change to read “within two months of start of investigation” or “when outbreak is first recognized” to account for outbreaks in which cases are recognized many months after occurring (esp. in PulseNet clusters).

Linking to national case report forms:
- What level of completeness is expected for national case report forms? Are there key variables?

FoodNet/NARMS Performance Standards

		Target
	Active and HUS Surveillance	
1	**Cases with "unknown" hospitalization**	<= 15%
2	**Outpatient/ER cases with "unknown" outcome**	<= 50%
3	**Hospitalized cases with "unknown" outcome**	<= 5%
4	***Salmonella* cases interviewed for international travel history**	>= 85% (*GA: >= 25%)
5	***E. coli* O157 cases interviewed for international travel history**	>= 85%
6	**Foodborne outbreak-associated cases with EFORS number (*Salmonella* & *E. coli*)**	100%
7	**Median # of days from culture collection to data entry (range)**	<= 15 days
8	**HUS surveillance: report at least monthly (8/8 months)**	100%
	Outbreak Surveillance	
9	**Initial EFORS report within 2 months of first onset**	>=80%
10	**Information on number of laboratory-confirmed cases completed**	>= 95%
11	**Information on age groups completed**	>= 85%
12	**Information on gender completed**	>= 85%
13	**Information on number of hospitalized case completed**	>= 85%
14	**Information on number of deaths completed**	>=85%
	Laboratory Information (for cases in active FoodNet surveillance)	
	Isolates from clinical labs received at state public health labs (based on presence of state laboratory ID number)	
15	***Salmonella***	>= 85%
16	***E. coli* O157**	>= 85%
17	***Listeria monocytogenes***	>= 95%
18	***Vibrio***	>= 90%
	Isolates with serotype/species in FoodNet active surveillance (excluding *Campylobacter* and *E. coli* O157)	
19	***Salmonella***	>= 95%
20	***Shigella***	>= 95%
21	***Listeria***	>= 95%
22	***Vibrio***	>= 95%
23	***Yersinia***	>= 95%
	NARMS isolates received at CDC (NARMS received/Total FoodNet) (2 month lag allowed)	
24	**Non-typhoidal *Salmonella* (every 20th)**	5%
25	***E. coli* O157 (every 20th)**	5%
26	***Shigella* (every 20th)**	5%
27	***Salmonella* Typhi (all)**	100%
28	***Listeria monocytogenes* (all)**	100%
29	***Vibrio* (all)**	100%
30	***Campylobacter***	Varies by state
	PulseNet patterns submit to CDC	
31	***E. coli* O157**	100%
32	***Salmonella* Typhimurium**	100%
33	***Listeria monocytogenes***	100%
	FoodNet Linking	
	% NARMS isolates linked to FoodNet (Cases are from catchment areas and linked duplicates and carriers included)	
34	***Non-Typhi Salmonella***	100%
35	***Campylobacter***	100%
36	***E. coli***	100%
37	***Shigella***	100%
38	***S.* Typhi**	100%
39	***Listeria***	100%
40	***Vibrio***	100%

FoodNet/NARMS Performance Standards

		Target
	% FoodNet cases linked to PulseNet	
41	***Non-Typhi Salmonella***	TBD
42	***Campylobacter***	TBD
43	***E. coli***	TBD
44	***Shigella***	TBD
45	***S.* Typhi**	TBD
46	***Listeria***	TBD
47	***Vibrio***	TBD
	% FoodNet cases linked to National Case Report Form Data	
48	**% of *Vibrio* cases linked to national case report form**	100%
49	**% of *Salmonella* Typhi cases linked to national case report form**	100%
	Case-Control, Cohort, and Other Studies	
50	**Percent of "eligible" cases enrolled**	≥ 50% of eligible (assessed for each study)
	Leadership	
51	**Participation in steering committee calls**	100%
52	**Number of 1st author FoodNet abstracts submitted yearly to national meetings**	>= 1

CASE ID __ __ __ __ --____ -- __ __ __

A A

Hemolytic Uremic Syndrome Surveillance
State Department of Health

Case Report Form

Instructions: Complete the following by interviewing the attending physician and/or reviewing patient's medical record.

I. PATIENT IDENTIFICATION

1A. Patient name _____ (last) _____ (first) **2A. Date of birth** ____/____/____ (mo / day / yr)

3A. Parent/guardian _____ (last) _____ (first) **4A. Medical Rec #** _____

5A. Address_____ (number/street) (city) (state) (zip)

6A. Phone home (____) _____ **7A. Phone work** (____) _____ **8A. County of residence**_____

9A. Sex ☐ **Female** ☐ **Male**

10A. Ethnicity ☐ **Hispanic** ☐ **Non-Hispanic** ☐ **Unknown**

11A. Race ☐ **White** ☐ **Asian / Pacific Islander** ☐ **Black** ☐ **American Indian / Alaska Native**
☐ **Other**_____ ☐ **Unknown**

12A. Was this case captured through Active Surveillance?
☐ **Yes** **Date Entered (MM/DD/YY):** _____
☐ **No**

13A. Was this case captured through Hospital Discharge Data?
☐ **Yes** **Date Entered (MM/DD/YY):** _____
☐ **No**

*** It is possible that both 12A and 13A will be Yes.**

II. HOSPITAL INFORMATION

14A. Person reporting case _____ **15A. Phone** (_____)_____

16A. Attending physician _____ **17A. Phone** (_____)_____

18A. Hospital _____ (Name) _____ (City/State) **19A. Phone** (_____)_____

20A. Date of admission or transfer to this facility ____/____/____

21A. Date of discharge or transfer from this facility ____/____/____ ☐ **Still hospitalized**

22A. Institution transferred to (if applicable) _____ (Name) _____ (City/State)

23A. Institution where first hospitalized (if different) _____ (Name) _____ (City/State)

24A. Date of initial hospitalization (if different) ____/____/____

25A. Physician, initial hospitalization (if different) _____ **26A. Phone** (_____)_____

Revised 11/20/00

A A

III. CLINICAL INFORMATION

27A. Date of HUS diagnosis ____/____/____

28A. Did patient have diarrhea during the 3 weeks before HUS diagnosis?..... ☐ yes ☐ no ☐ unsure

if yes **29A. Date of diarrhea onset _____/_____/_____**

30A. Did stools contain visible blood at any time .....☐ yes ☐ no ☐ unsure

31A. Was diarrhea treated with antimicrobial medications.....☐ yes ☐ no ☐ unsure

if yes **32A. Type of antimicrobial _____**

33A. Was patient treated with an antimicrobial medication for any other reason than diarrhea during the 3 weeks before HUS diagnosis? …….....☐ yes ☐ no ☐ unsure

if yes **34A. Type of antimicrobial _____**

35A. Reason(s)_____

Other medical conditions present during 3 weeks before HUS diagnosis:

36A. Other gastrointestinal illness……☐ yes ☐ no ☐ unsure

37A. Urinary tract infection .....☐ yes ☐ no ☐ unsure

38A. Respiratory tract infection .....☐ yes ☐ no ☐ unsure

39A. Other acute illness.....☐ yes ☐ no ☐ unsure

if yes **40A. Describe _____**

41A. Pregnancy .....☐ yes ☐ no ☐ unsure

42A. Kidney Disease .....☐ yes ☐ no ☐ unsure

43A. Immune compromising condition or medication ……☐ yes ☐ no ☐ unsure

if yes **44A. Malignancy.....☐ yes ☐ no ☐ unsure**

45A. Transplanted organ or bone marrow.....☐ yes ☐ no ☐ unsure

46A. HIV infection.....☐ yes ☐ no ☐ unsure

47A. Steroid Use (parenteral or oral).....☐ yes ☐ no ☐ unsure

48A. Other, describe _____

Laboratory values within 7 days before and 3 days after HUS diagnosis:

49A. Highest serum creatinine.....……._____ mg/dL

50A. Highest serum BUN .....……._____ mg/dL

51A. Highest serum amylase.....……._____ U/L

52A. Highest WBC .....……._____K/mm^3

53A. Lowest hemaglobin .....……._____ g/dL

or Lowest hematocrit .....……._____ %

54A. Lowest platelet count .....……._____ K/mm^3

Other laboratory findings within 7 days before and 3 days after HUS diagnosis:

55A. Blood smear with microangiopathic changes (i.e., schistocytes, burr cells, helmet cells or red cell fragments).....☐ yes ☐ no ☐ unsure ☐ not tested

56A. Blood in urine by dipstick.....…☐ yes ☐ no ☐ unsure ☐ not tested

57A. Protein in urine by dipstick.....…☐ yes ☐ no ☐ unsure ☐ not tested

58A. RBC in urine by microscopy.....…☐ yes ☐ no ☐ unsure ☐ not tested

59A. Patient's blood type_____

To be completed by health department

60A. How was patient's illness first identified by health department?

- ☐ **Report of HUS case by a participating member of the HUS active surveillance network**
- ☐ **Report of HUS case by a non-participating physician or service**
- ☐ **Routine O157 surveillance**
- ☐ **Other, describe_____**

61A. Is this case outbreak related?..... ☐yes ☐no ☐ unsure

62A. Status of report 9Initial 9Update 9Complete

63A. Date ____/____/____ 64A. Completed by (initials)_____

Revised 11/20/00

Summary of the completeness of Race and Ethnicity information in FoodNet data

	Total # CASES	RACE			ETHNICITY			RACE and/or ETHNICITY		
		COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING
1996	7,307	4,668	2639	36.12%	2,939	4368	59.78%	2,831	4,476	61.26%
1997	8,520	4,845	3675	43.13%	3,059	5461	64.10%	2,861	5,659	66.42%
1998	9,732	6,451	3281	33.71%	4,910	4822	49.55%	4,608	5,124	52.65%
1999	10,240	6,569	3671	35.85%	4,515	5725	55.91%	4,147	6,093	59.50%
2000	12,905	8,027	4878	37.80%	5,789	7116	55.14%	5,326	7,579	58.73%
2001	13,745	9,299	4446	32.35%	7,753	5992	43.59%	7,008	6,737	49.01%
2002	16,971	12,928	4043	23.82%	11,497	5474	32.26%	10,785	6,186	36.45%
2003	15,769	12,742	3027	19.20%	11,266	4503	28.56%	10,709	5,060	32.09%
2004	16,017	12,802	3215	20.07%	10,968	5049	31.52%	10,457	5,560	34.71%
2005	16,708	13,056	3652	21.86%	11,636	5072	30.36%	111,333	5,575	33.37%
Total	127,914	91,387	36,527	28.56%	74,332	53,582	41.89%	170,065	58,049	45.38%

	Total # CASES	RACE			ETHNICITY			RACE and/or ETHNICITY		
		COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING
CA	18,733	11,561	7,172	38.29%	10,026	8,707	46.48%	8,921	9,812	52.38%
CO	4,697	3,595	1,102	23.46%	3,609	1,088	23.16%	3,415	1,282	27.29%
CT	11,849	5,879	5,970	50.38%	4,922	6,927	58.46%	4,318	7,531	63.56%
GA	29,120	22,153	6,967	23.93%	13,699	15,421	52.96%	12,811	16,309	56.01%
MD	10,522	9,115	1,407	13.37%	7,719	2,803	26.64%	7,443	3,079	29.26%
MN	22,317	15,759	6,558	29.39%	13,069	9,248	41.44%	12,862	9,455	42.37%
NM	1,595	1,429	166	10.41%	1,403	192	12.04%	1,360	235	14.73%
NY	8,344	7,626	718	8.60%	7,430	914	10.95%	7,351	993	11.90%
OR	12,493	8,312	4,181	33.47%	7,705	4,788	38.33%	6,774	5,719	45.78%
TN	8,244	5,958	2,286	27.73%	4,750	3,494	42.38%	4,610	3,634	44.08%
Total	127,914	91,387	36,527	28.56%	74,332	53,582	41.89%	69,865	58,049	45.38%

	Total # CASES	RACE			ETHNICITY			RACE and/or ETHNICITY		
		COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING	COMPLETE	MISSING	% MISSING
CAMPYLOBACTER	46,354	30,101	16,253	35.06%	24,906	21,448	46.27%	23,447	22,907	49.42%
CRYPTOSPORIDIUM	5,545	3,957	1,588	28.64%	3,374	2,171	39.15%	3,221	2,324	41.91%
CYCLOSPORA	265	200	65	24.53%	162	103	38.87%	159	106	40.00%
E. COLI O157	4,829	4,092	737	15.26%	3,558	1,271	26.32%	3,468	1,361	28.18%
LISTERIA	1,063	920	143	13.45%	754	309	29.07%	706	357	33.58%
SALMONELLA	45,970	34,898	11,072	24.09%	27,256	18,714	40.71%	25,866	20,104	43.73%
SHIGELLA	21,048	15,064	5,984	28.43%	12,673	8,375	39.79%	11,452	9,596	45.59%
STEC NONO157	417	307	110	26.38%	290	127	30.46%	274	143	34.29%
STEC O AG UNDET	85	57	28	32.94%	51	34	40.00%	48	37	43.53%
VIBRIO	762	583	179	23.49%	483	279	36.61%	451	311	40.81%
YERSINIA	1,576	1,208	368	23.35%	825	751	47.65%	773	803	50.95%
Total	127,914	91,387	36,527	28.56%	74,332	53,582	41.89%	69,865	58,049	45.38%

Summary of the completeness of Outcome information in FoodNet data

	Total #	Outcome overall				Total #	Outcome where case outpatient				Total #	Outcome where case hospitalized			
	Cases	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete
1996	7,307	5,409	34	1,864	74.49%	4,751	4,148	34	1,864	88.02%	1,152	1,079	30	43	96.27%
1997	8,520	6,927	36	1,557	81.73%	6,303	5,616	36	1,557	89.67%	1,264	1,189	32	43	96.60%
1998	9,732	8,511	32	1,189	87.78%	7,276	6,774	32	1,189	93.54%	1,532	1,465	30	37	97.58%
1999	10,240	7,883	62	2,295	77.59%	6,370	6,118	62	2,295	97.02%	1,608	1,513	54	41	97.45%
2000	12,905	8,878	60	3,967	69.26%	7,649	6,542	60	3,967	86.31%	1,940	1,848	56	36	98.14%
2001	13,745	9,529	51	4,165	69.70%	8,012	6,840	51	4,165	86.01%	2,225	2,083	46	96	95.69%
2002	16,971	13,475	84	3,412	79.90%	11,569	9,704	84	3,412	84.61%	3,183	2,914	74	195	93.87%
2003	15,769	12,812	83	2,874	81.77%	10,336	8,904	83	2,874	86.95%	3,312	3,112	69	131	96.04%
2004	16,017	12,785	84	3,148	80.35%	10,181	8,915	84	3,148	88.39%	3,460	3,272	76	112	96.76%
2005	16,708	14,129	66	2,513	84.96%	11,721	10,424	66	2,513	89.50%	3,567	3,351	62	154	95.68%
Total	127,914	100,338	592	26,984	78.90%	84,168	73,985	592	26,984	88.60%	23,243	21,826	529	888	96.18%

	Total #	Outcome overall				Total #	Outcome where case outpatient				Total #	Outcome where case hospitalized			
	Cases	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete
CA	18,733	9,181	63	9,489	49.35%	11,835	6,430	2	5,403	54.35%	2,292	1,984	60	247	89.18%
CO	4,697	4,133	21	543	88.44%	3,365	3,161	0	204	93.94%	708	648	19	41	94.21%
CT	11,849	7,835	80	3,934	66.80%	6,226	5,502	6	718	88.47%	2,273	2,183	74	16	99.30%
GA	29,120	19,005	146	9,969	65.77%	16,334	13,050	14	3,270	79.98%	5,756	5,276	122	358	93.78%
MD	10,522	10,081	74	367	96.51%	6,070	6,028	5	37	99.39%	2,447	2,368	62	17	99.31%
MN	22,317	22,196	55	66	99.70%	18,047	18,034	3	10	99.94%	4,020	3,963	50	7	99.83%
NM	1,595	1,413	11	171	89.28%	1,124	1,097	1	26	97.69%	322	307	9	6	98.14%
NY	8,344	8,231	45	68	99.19%	6,595	6,577	4	14	99.79%	1,525	1,482	41	2	99.87%
OR	12,493	11,891	54	548	95.61%	10,192	9,961	5	226	97.78%	1,764	1,685	49	30	98.30%
TN	8,244	6,372	43	1,829	77.81%	4,380	4,145	0	235	94.63%	2,136	1,929	43	164	92.32%
Total	127,914	100,338	592	26,984	78.90%	84,168	73,985	40	10,143	87.95%	23,243	21,825	529	888	96.18%

	Total #	Outcome overall				Total #	Outcome where case outpatient				Total #	Outcome where case hospitalized			
	CASES	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete	Cases	Alive	Dead	Unknown	% Complete
CAMPYLOBACTER	46,354	3,460	52	11,662	7.58%	32,673	27,912	8	4,753	85.45%	5,515	5,254	42	228	96.03%
CRYPTOSPORIDIUM	5,545	4,914	34	597	89.23%	3,925	3,733	0	192	95.11%	1,041	978	31	32	96.93%
CYCLOSPORA	265	211	0	54	79.62%	199	198	0	1	99.50%	4	4	0	0	100.00%
E. COLI O157	4,829	4,608	40	181	96.25%	2,845	2,788	0	57	98.00%	1,813	1,753	40	20	98.90%
LISTERIA	1,063	848	173	42	96.05%	60	53	5	2	96.67%	943	771	160	12	98.73%
SALMONELLA	45,970	36,465	215	9,290	79.79%	27,929	25,192	18	2,719	90.26%	10,131	9,526	189	416	95.89%
SHIGELLA	21,048	1,637	22	4,669	7.88%	14,771	12,583	8	2,180	85.24%	3,092	2,912	13	167	94.60%
STEC NONO157	417	381	1	35	91.61%	317	316	0	1	99.68%	51	50	1	0	100.00%
STEC O AG UNDET	85	74	0	11	87.06%	61	59	0	2	96.72%	4	4	0	0	100.00%
VIBRIO	762	562	44	156	79.53%	455	361	1	93	79.56%	213	168	43	2	99.06%
YERSINIA	1,576	1,278	11	287	81.79%	933	790	0	143	84.67%	436	415	10	11	97.48%
Total	127,914	54,438	592	26,984	43.02%	84,168	73,985	40	10,143	87.95%	23,243	21,835	529	888	96.22%

non-Typhi *Salmonella* Clinical Outcomes Cohort Study Status

2006

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	473	52	31 (60%)	0 (0%)	5 (10%)	16 (31%)
CO	1/4	1/1/2006	352	87	64 (74%)	0 (0%)	17 (20%)	6 (7%)
CT	1/4	1/1/2006	502	109	98 (90%)	0 (0%)	9 (8%)	2 (2%)
GA	1/20	3/15/2006	1545	76	44 (58%)	0 (0%)	2 (3%)	30 (39%)
MD	1/10	5/1/2006	618	68	50 (74%)	0 (0%)	5 (7%)	13 (19%)
MN	1/5	1/1/2006	720	142	114 (80%)	2 (1%)	13 (9%)	13 (9%)
NM	1/5	1/1/2006	258	45	27 (60%)	0 (0%)	5 (11%)	13 (29%)
NY	1/5	1/1/2006	492	96	57 (59%)	0 (0%)	14 (15%)	25 (26%)
OR	1/20	1/1/2006	397	25	20 (80%)	0 (0%)	3 (12%)	2 (8%)
TN	1/10	1/1/2006	785	76	65 (86%)	0 (0%)	4 (5%)	7 (9%)
		Total	6142	776	570 (73%)	2 (0%)	77 (10%)	127 (16%)

2007

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	146	21	9 (43%)	3 (14%)	4 (19%)	5 (24%)
CO	1/10	1/1/2006	130	11	8 (73%)	2 (18%)	1 (9%)	0 (0%)
CT	1/20	1/1/2006	150	9	8 (89%)	0 (0%)	0 (0%)	1 (11%)
GA	1/20	3/15/2006	483	48	30 (63%)	6 (13%)	4 (8%)	8 (17%)
MD	1/10	5/1/2006	193	24	11 (46%)	5 (21%)	2 (8%)	6 (25%)
MN	1/20	1/1/2006	273	15	6 (40%)	5 (33%)	0 (0%)	4 (27%)
NM	1/5	1/1/2006	77	19	7 (37%)	3 (16%)	2 (11%)	7 (37%)
NY	1/5	1/1/2006	218	48	18 (38%)	10 (21%)	6 (13%)	4 (8%)
OR	1/10	1/1/2006	114	12	7 (58%)	0 (0%)	3 (25%)	2 (17%)
TN	1/10	1/1/2006	232	27	20 (74%)	3 (11%)	0 (0%)	4 (15%)
		Total	2016	234	124 (53%)	37 (16%)	22 (9%)	41 (18%)

6/28/2007

E. *coli* O157 Cohort Study Status

State	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	3/1/2006	47	56	40 (71%)	2 (4%)	4 (7%)	10 (18%)
CO	2/1/2006	38	40	28 (70%)	1 (3%)	7 (18%)	4 (10%)
CT	6/1/2006	42	43	29 (67%)	0 (0%)	11 (26%)	3 (7%)
GA	1/22/2007	48	9	3 (33%)	3 (33%)	0 (0%)	3 (33%)
MD	5/1/2006	38	42	24 (57%)	0 (0%)	7 (17%)	11 (26%)
MN	3/1/2006	164	178	105 (59%)	11 (6%)	22 (12%)	40 (22%)
NM	6/1/2006	21	21	10 (48%)	1 (5%)	3 (14%)	7 (33%)
NY	3/1/2006	58	65	30 (46%)	4 (6%)	21 (32%)	10 (15%)
OR	3/1/2006	85	93	74 (80%)	5 (5%)	5 (5%)	9 (10%)
TN	1/1/2006	89	96	63 (66%)	0 (0%)	4 (4%)	29 (30%)
	Total	630	643	406 (63%)	27 (4%)	84 (13%)	126 (20%)

Updated 6/26/07

Enrollment Status for Selected *Salmonella* Serotypes Study, as of June 27, 2007

	S. Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	Total	Interviewed	Pending	Refused	Other Not Enrolled
	# Eligible				# (% of Eligible)			
CA	1	4	11	16	6 (38)	6 (38)	0	4 (25)
CO	3	2	0	5	3 (60)	0	0	2 (40)
CT	1	3	7	11	9 (82)	1 (9)	0	1 (9)
GA	18	5	17	40	20 (50)	7 (18)	6 (15)	7 (18)
MD	1	0	16	17	8 (47)	2 (12)	0	7 (41)
MN	3	6	9	18	11 (61)	2 (11)	0	5 (28)
NM	2	1	4	7	2 (29)	0	1 (14)	4 (57)
NY	0	1	10	11	2 (18)	2 (18)	0	7 (64)
OR	1	3	9	13	6 (46)	1 (8)	4 (31)	2 (15)
TN	2	0	21	23	14 (61)	3 (13)	3 (13)	3 (13)
Total (Cases)	32	25	104	161	81 (50)	24 (15)	14 (9)	42 (26)
Controls	-	-	-	-	426	-	-	-

Enrollment Status for <u>Validation Sub-Studies</u> for Selected *Salmonella* Serotypes Study, as of June 27, 2007

	Selection Bias Sub-Study		Misclassification Bias Sub-Study	
	Eligible	Completed Questionnaires Received (% of eligible)	Eligible	Completed Questionnaires Received (% of eligible)
CA	1	0	0	0
CO	1	0	0	0
CT	0	0	0	0
GA	4	2	0	0
MD	0	0	2	0
MN	3	0	0	0
NM	1	0	0	0
NY	0	0	0	0
OR	3	1	0	0
TN	5	1	1	0
Total (Cases)	18	4 (22)	3	0
Controls	-	35	-	6

Data Analysis Request and Use Form
Centers for Disease Control and Prevention
Emerging Infections Program
Foodborne Diseases Active Surveillance Network (FoodNet)

Phone: (404)-639-3680 Fax:(404)-639-3535

Kristin Holt

Requestor's Name (please print)

Date Approved by Steering Committee

USDA, FSIS, OPHS

Organization /Affiliation (please print)

Date Analysis/Data Needed By

404-639-3379 — Requestor's Contact Phone

404-639-3359 — Requestor's Contact Fax

kristin.holt@fsis.usda.gov — Requestor's Contact E-mail

Description of Data Request:

Research Question/Interest: The FSIS has a contractor that is developing a model for FSIS that will predict potential problems at inspected establishment through the use of existing FSIS data streams. A future vision is to incorporate additional data streams into real-time runs of the model. FSIS has identified 5 outbreaks and associated data to test the model. This data request relates to one of the outbreaks identified for testing of the model. The outbreak of interest is a *S.* Heidelberg outbreak that occurred primarily in Northwestern states in 2004 and 2005. The outbreak may be viewed as two outbreaks as there were two PFGE patterns involved. Raw chicken was identified as the likely vehicle.

Dataset: surveillance
(from case control study, surveillance, population survey, etc.)

Pathogen(s): *Salmonella*

Serotype(s): Heidelberg

Year(s): 2004 – 2005 – Oregon only

Other Variables of Interest (e.g. sex, race, ethnicity): Only need date of specimen collection or isolation data

Denominator: Data requested by June 24, 2007

Additional Request:

Proposed Publication:

Publication: ☐ Yes ☒ No

If yes:

Publication Timeline:

Proposed Publication:

Data Use Policy:

I understand that I am responsible for the integrity and management of these datasets. The datasets will not be provided to a third party without the permission of the FoodNet Steering Committee. In the spirit of collaboration, I agree to keep the FoodNet Steering Committee informed of the results of analyses. In accordance with the FoodNet publication guidelines, I will not distribute the results of these analyses, electronically or otherwise, in the form of a poster, abstract, manuscript, report, press release, or other public presentation without the approval of the FoodNet Steering Committee.

Signature — Date: 6/19/07

Please fax your completed form to FoodNet at 404-639-3535.

If you have any questions about the data use or authorship policy, please contact FoodNet at 404-639-3680
http://www.cdc.gov/foodnet

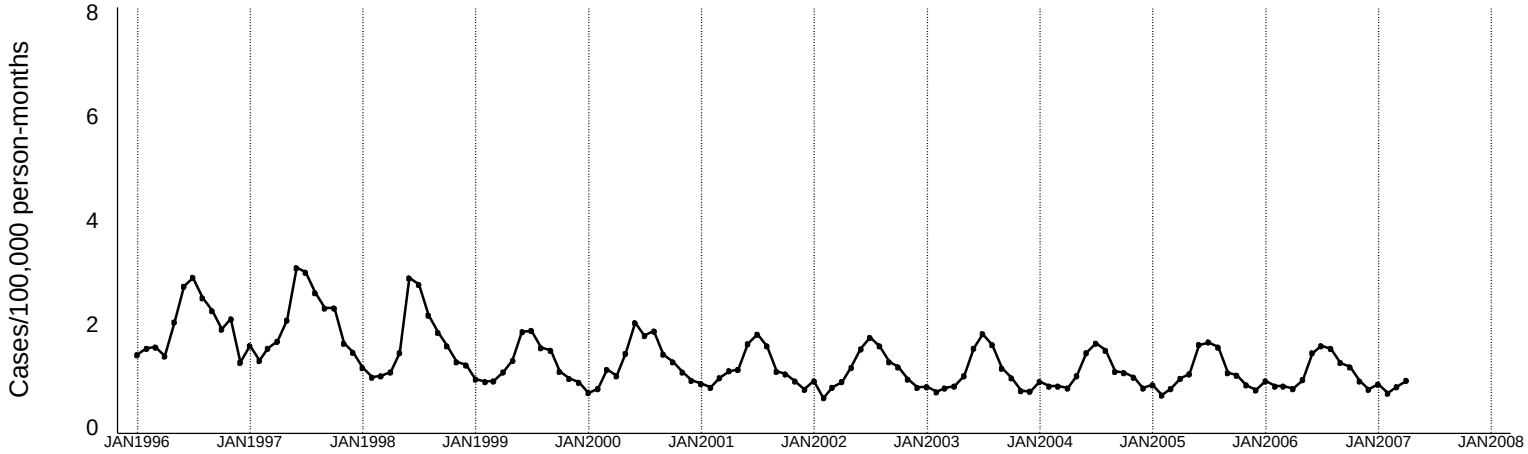
Modified 2/22/06

FoodNet Data through April
(data transmitted 6/22/2007)

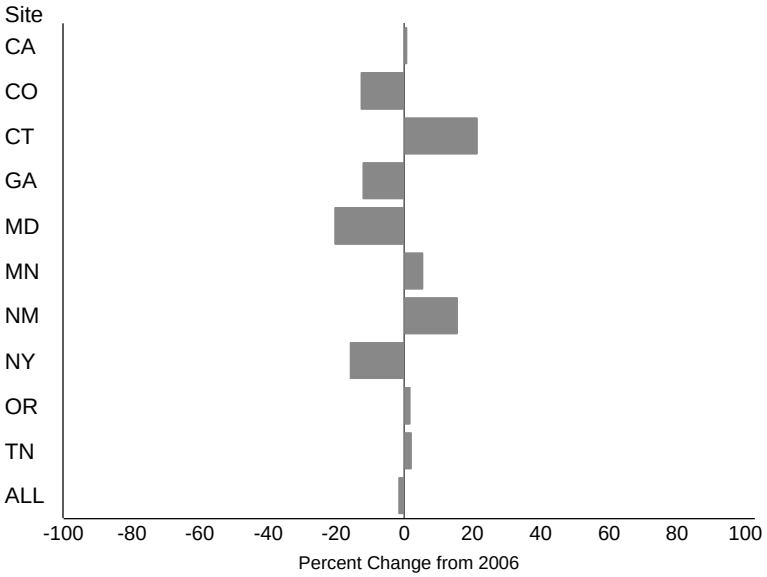
Pathogen	2006		2007		2007 vs 2006	5 year Mean	
	count	rate	count	rate	p-value	count	Rate
Campylobacter	1473	3.28	1449	3.22		1397	2.36
Listeria	37	0.08	29	0.06		30	0.05
***Salmonella* , all serotypes**	1300	2.89	1549	3.45	0.0000	1331	2.17
***S. T* yphimurium**	238	0.53	252	0.56		277	0.48
***S.* Enteritidis**	253	0.56	309	0.69	0.0182	245	0.39
S. Newport	60	0.13	69	0.15		81	0.14
***S.* Heidelberg**	53	0.12	71	0.16		74	0.12
***S.* Javiana**	23	0.05	22	0.05		24	0.04
***Salmonella* , all others**	673	1.50	826	1.84	0.0001	631	1.00
***Shigella* , all species**	526	1.17	611	1.36	0.0117	716	1.25
Shigella sonnei	351	0.78	474	1.05	0.0000	549	0.96
Shigella flexneri	130	0.29	101	0.22		119	0.21
***Shigella* , all others**	45	0.10	36	0.08	0.0320	48	0.08
STEC O157	77	0.17	73	0.16		66	0.10
STEC non-O157	46	0.10	25	0.06	0.0128	20	0.03
***Vibrio* , all species**	15	0.03	7	0.02		15	0.02
Vibrio parahaemolyticus	4	0.01	6	0.01		4	0.01
Vibrio vulnificus	2	0.00	0	0.00		1	0.00
***Vibrio* , all others**	9	0.02	1	0.00	0.0117	10	0.02
Yersinia	57	0.13	63	0.14		56	0.10
Cryptosporidium	198	0.44	161	0.36		139	0.24
Cyclospora	2	0.00	2	0.00		5	0.01

Campylobacter

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

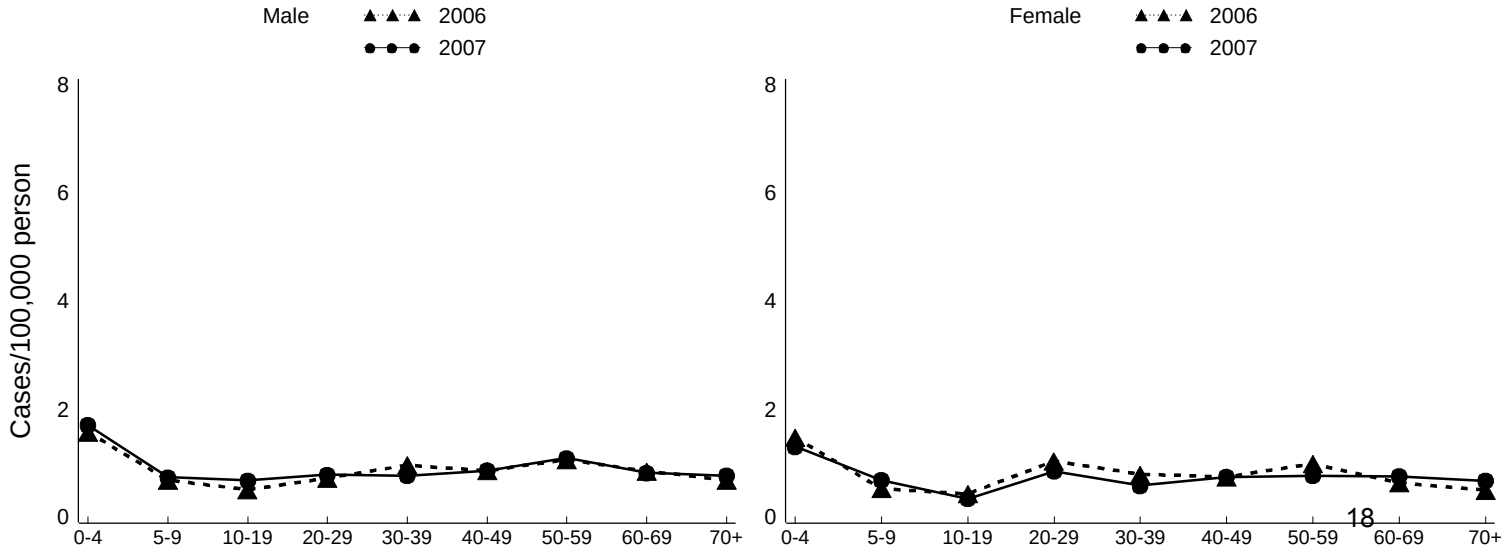


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	275	8.577	273	8.515	276	8.605
CO	110	4.253	126	4.871	104	4.085
CT	137	3.903	113	3.219	130	3.721
GA	154	1.697	175	1.929	158	1.781
MD	74	1.321	93	1.661	87	1.562
MN	232	4.520	220	4.286	207	4.064
NM	67	3.474	58	3.008	70	3.631
NY	106	2.461	126	2.925	112	2.781
OR	192	5.273	189	5.191	162	4.509
TN	102	1.711	100	1.677	91	1.675
ALL	1449	3.224	1473	3.277	1397	3.191

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

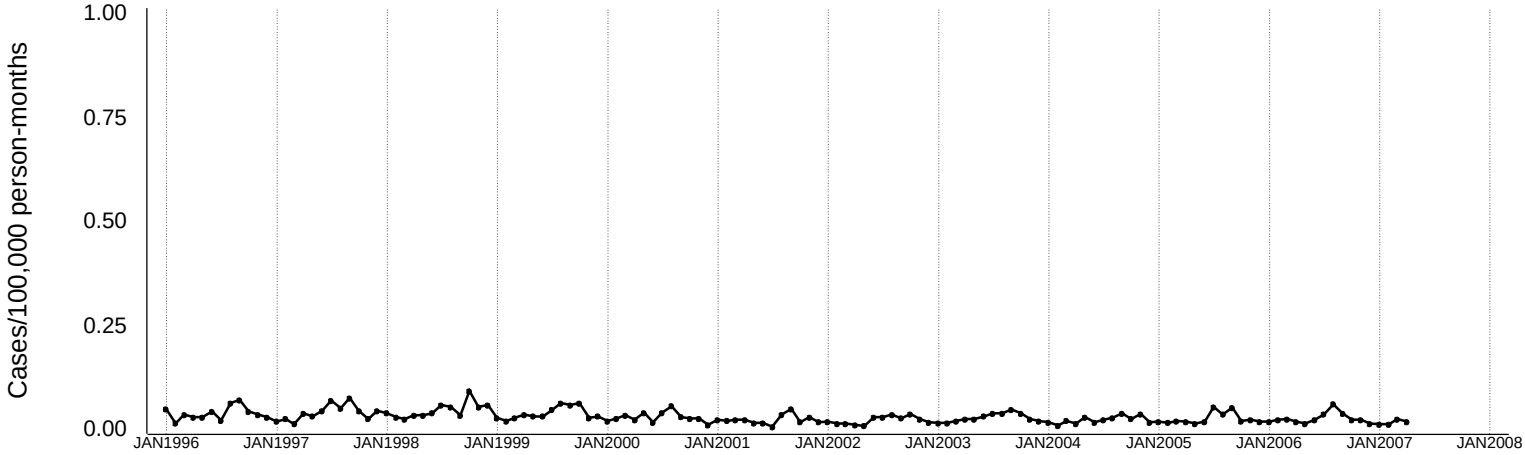
Calendar year through April: Rates for 2006 and 2007 by age group and sex



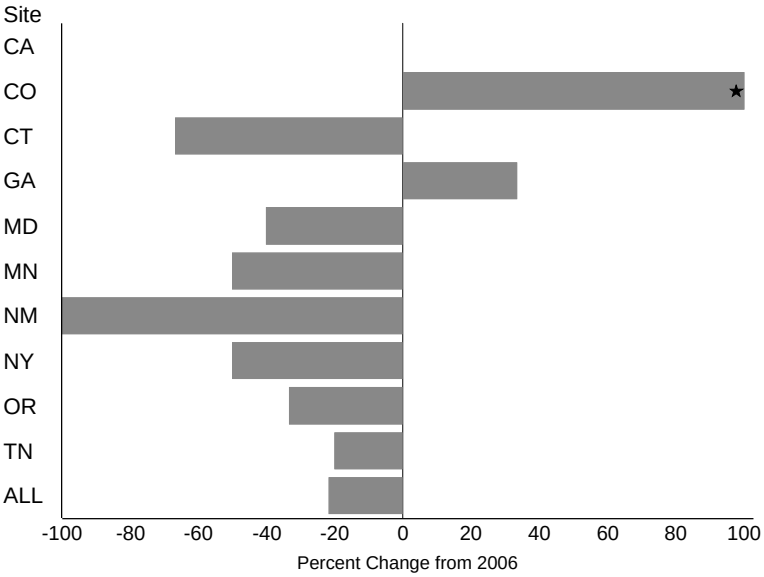
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Listeria

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

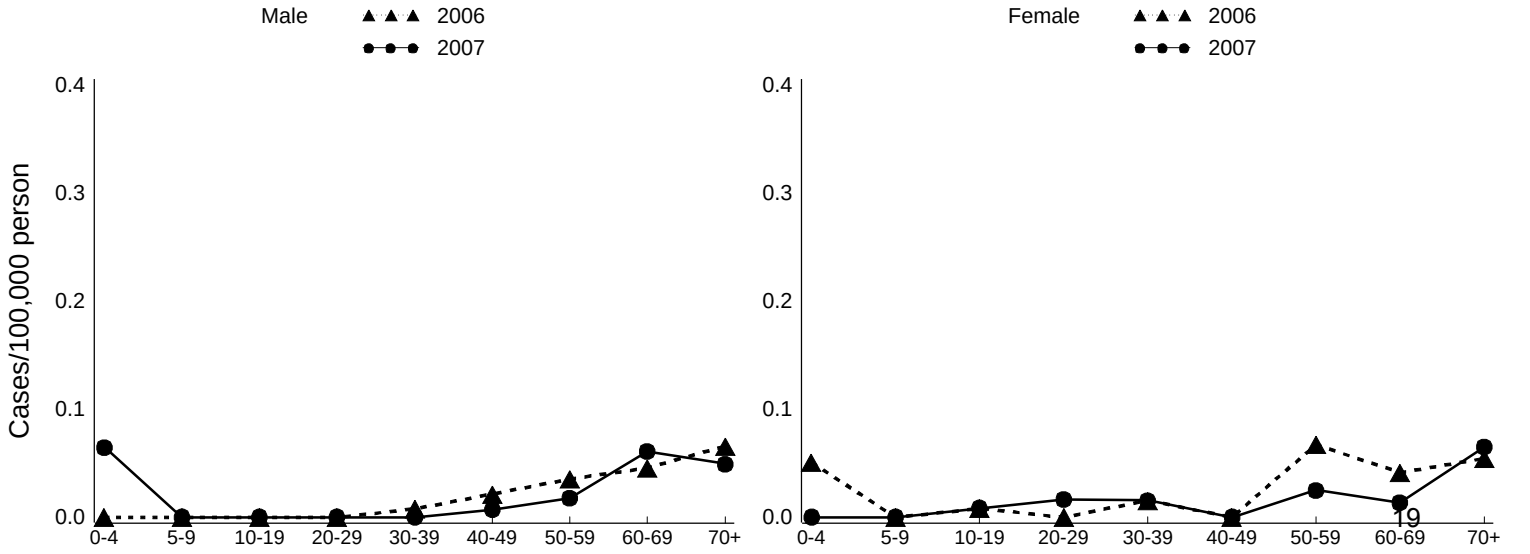


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	3	0.094	3	0.094	3	0.094
CO	4	0.155	1	0.039	1	0.024
CT	2	0.057	6	0.171	3	0.091
GA	8	0.088	6	0.066	7	0.074
MD	3	0.054	5	0.089	5	0.083
MN	1	0.019	2	0.039	2	0.035
NM	0	0.000	2	0.104	1	0.052
NY	2	0.046	4	0.093	3	0.086
OR	2	0.055	3	0.082	2	0.061
TN	4	0.067	5	0.084	3	0.058
ALL	29	0.065	37	0.082	30	0.068

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

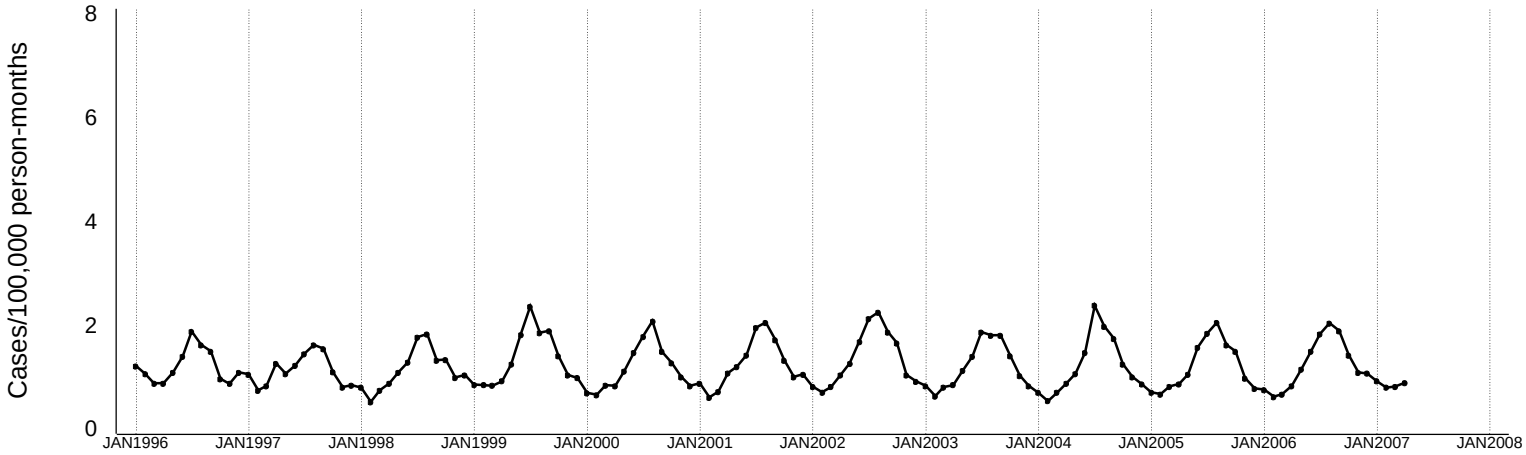
Calendar year through April: Rates for 2006 and 2007 by age group and sex



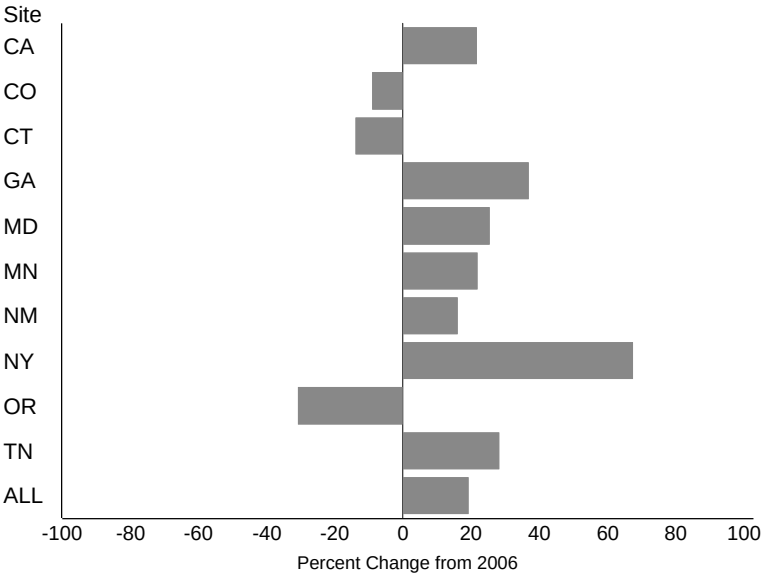
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Salmonella, all serotypes

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

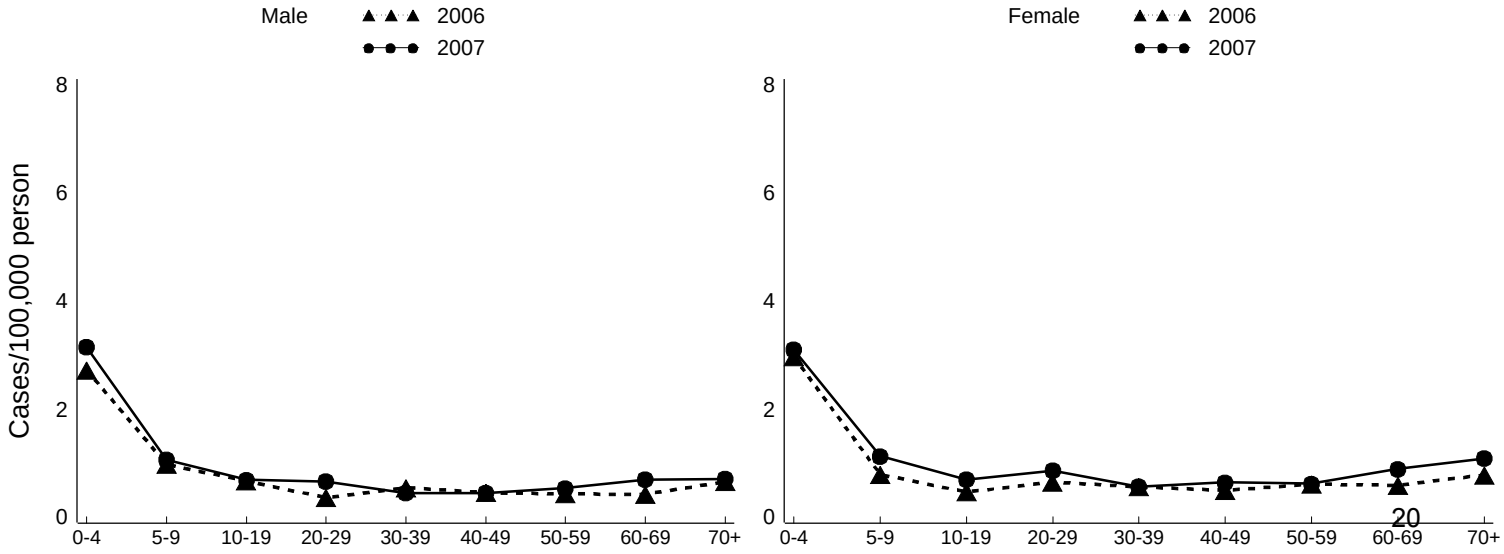


	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	119	3.71	98	3.06	123	3.83
CO	93	3.60	102	3.94	82	3.20
CT	94	2.68	109	3.11	107	3.05
GA	383	4.22	280	3.09	278	3.14
MD	169	3.02	135	2.41	163	2.95
MN	191	3.72	157	3.06	153	3.01
NM	66	3.42	57	2.96	59	3.07
NY	159	3.69	95	2.21	104	2.63
OR	79	2.17	114	3.13	106	2.96
TN	196	3.29	153	2.57	156	2.95
ALL	1549	3.45	1300	2.89	1331	3.06

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

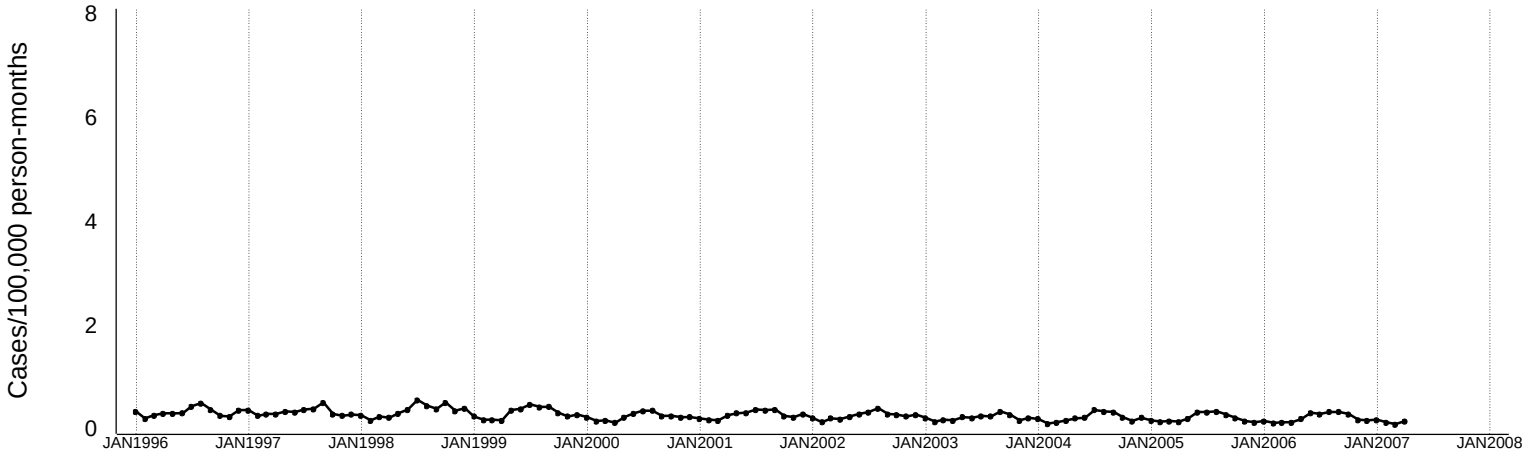
Calendar year through April: Rates for 2006 and 2007 by age group and sex



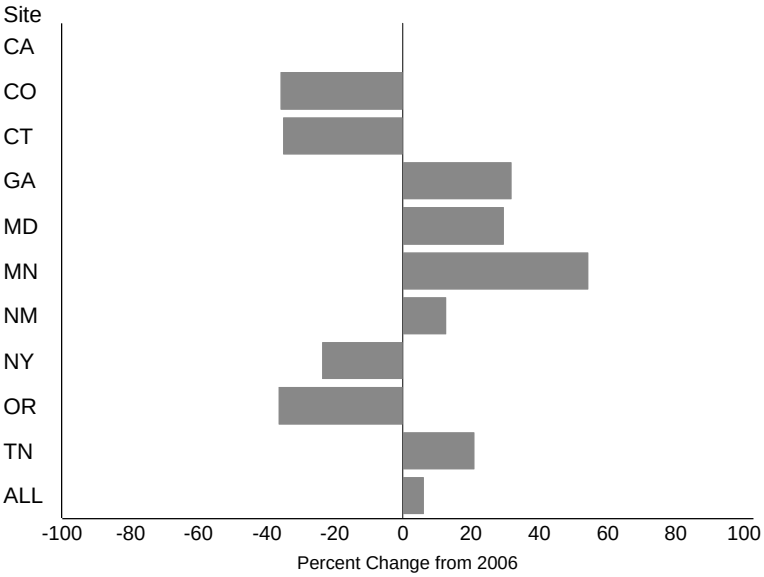
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Salmonella Typhimurium

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

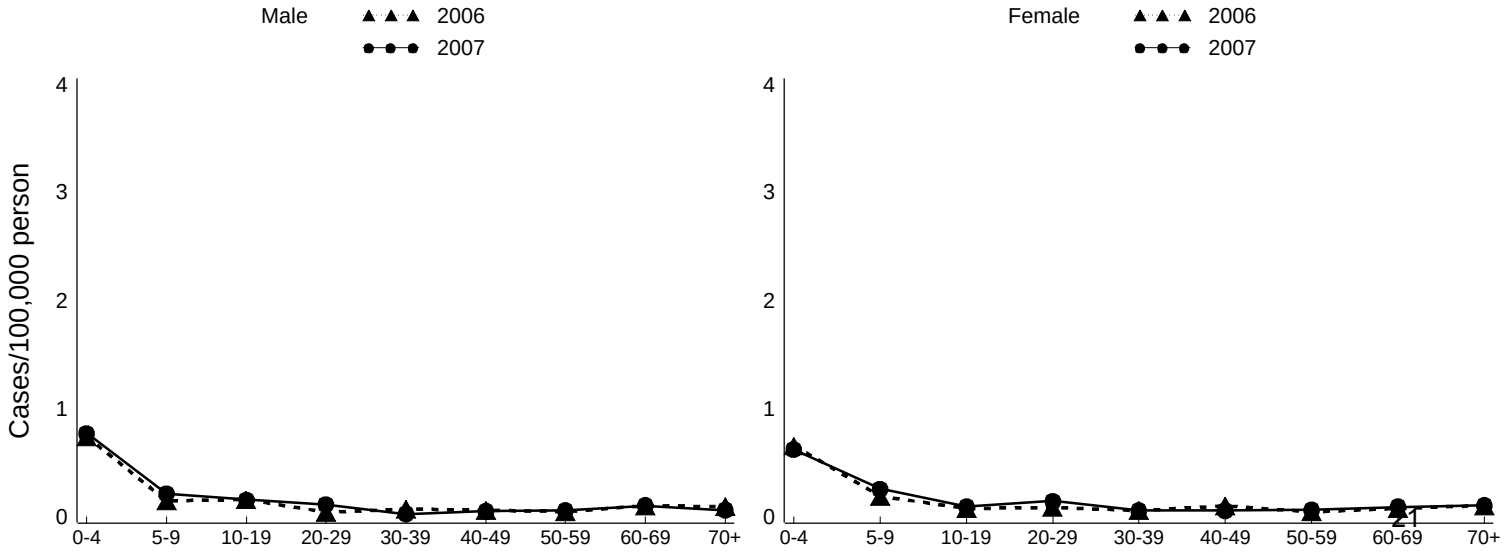


	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	18	0.56	18	0.56	23	0.70
CO	18	0.70	28	1.08	18	0.72
CT	13	0.37	20	0.57	22	0.62
GA	79	0.87	60	0.66	63	0.71
MD	22	0.39	17	0.30	30	0.54
MN	37	0.72	24	0.47	31	0.61
NM	9	0.47	8	0.41	10	0.54
NY	13	0.30	17	0.39	19	0.49
OR	14	0.38	22	0.60	19	0.54
TN	29	0.49	24	0.40	41	0.82
ALL	252	0.56	238	0.53	277	0.64

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

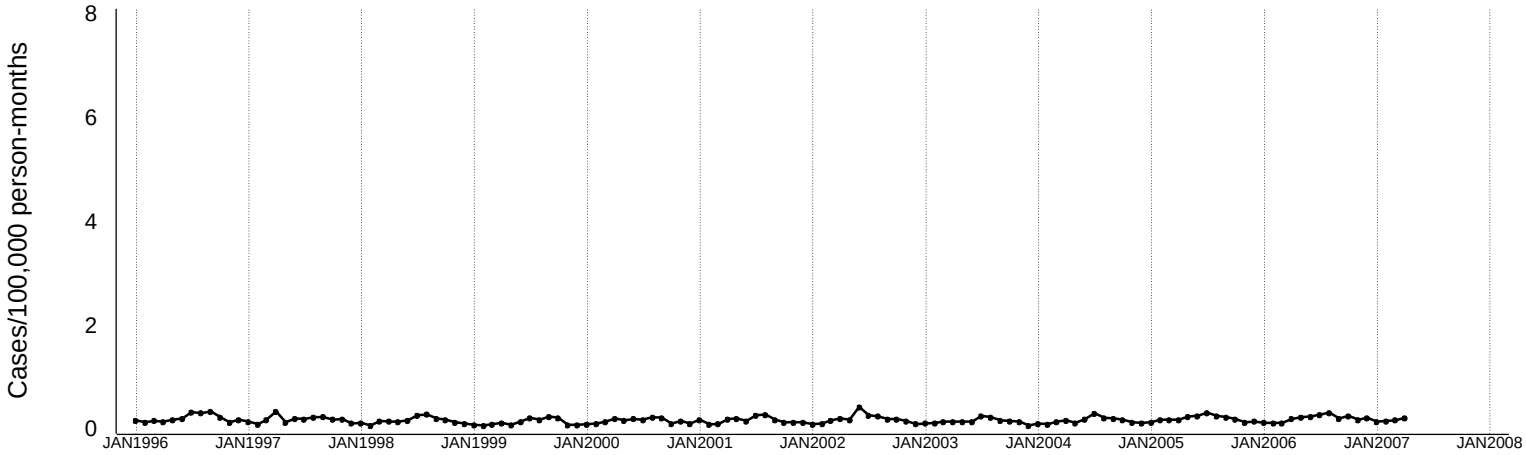
Calendar year through April: Rates for 2006 and 2007 by age group and sex



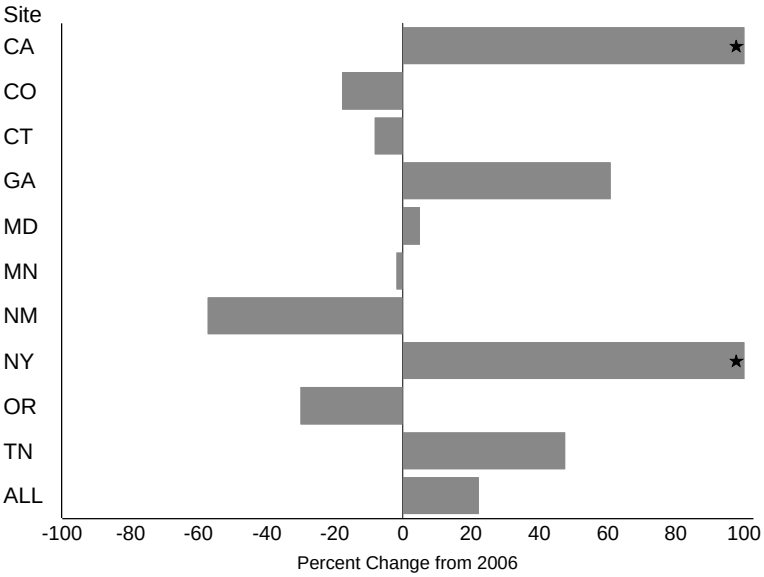
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Salmonella Enteritidis

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

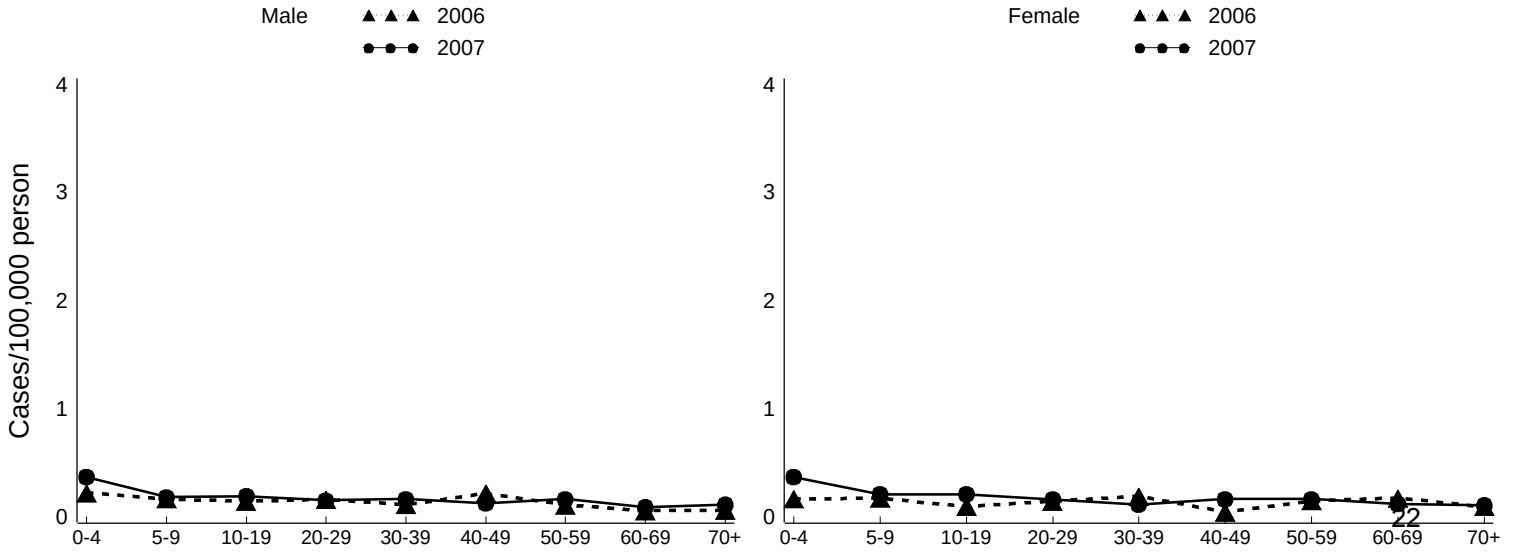


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	23	0.717	10	0.312	18	0.549
CO	14	0.541	17	0.657	18	0.691
CT	34	0.969	37	1.054	30	0.852
GA	45	0.496	28	0.309	21	0.236
MD	44	0.786	42	0.750	53	0.960
MN	54	1.052	55	1.072	39	0.769
NM	3	0.156	7	0.363	7	0.347
NY	50	1.161	18	0.418	20	0.494
OR	14	0.385	20	0.549	20	0.547
TN	28	0.470	19	0.319	20	0.365
ALL	309	0.687	253	0.563	245	0.564

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

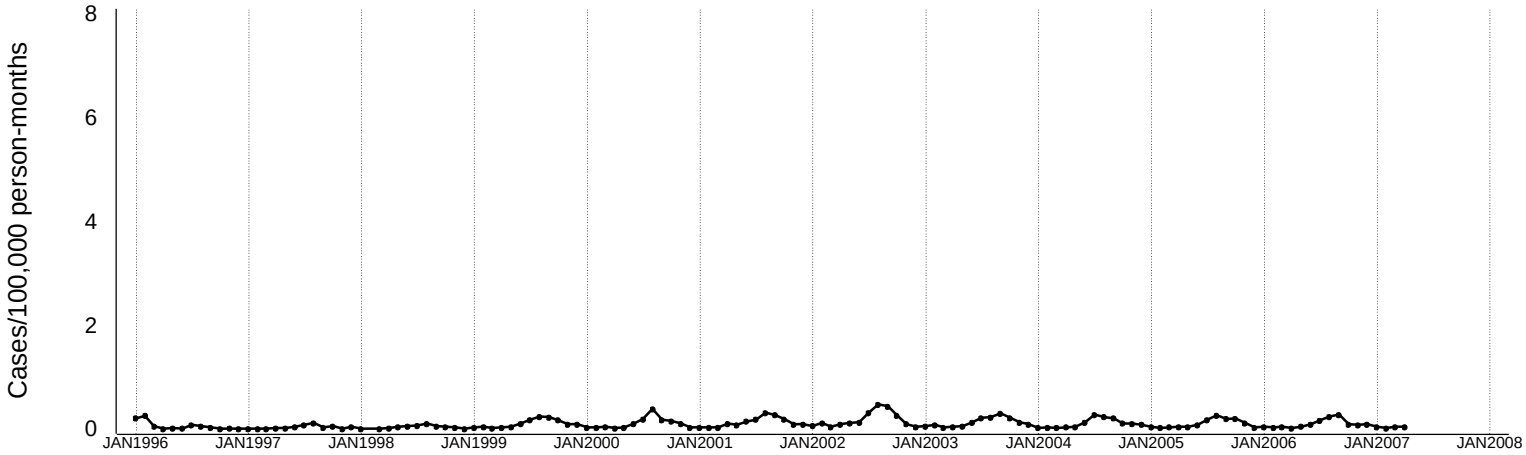
Calendar year through April: Rates for 2006 and 2007 by age group and sex



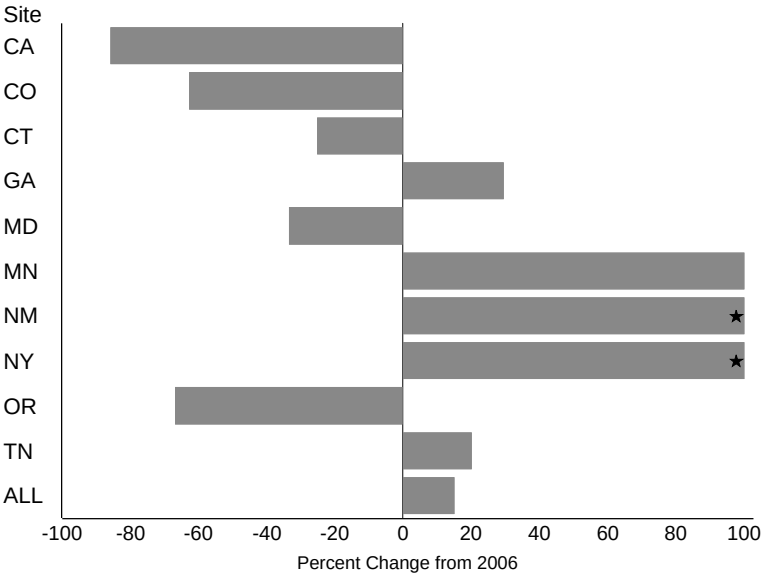
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Salmonella Newport

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

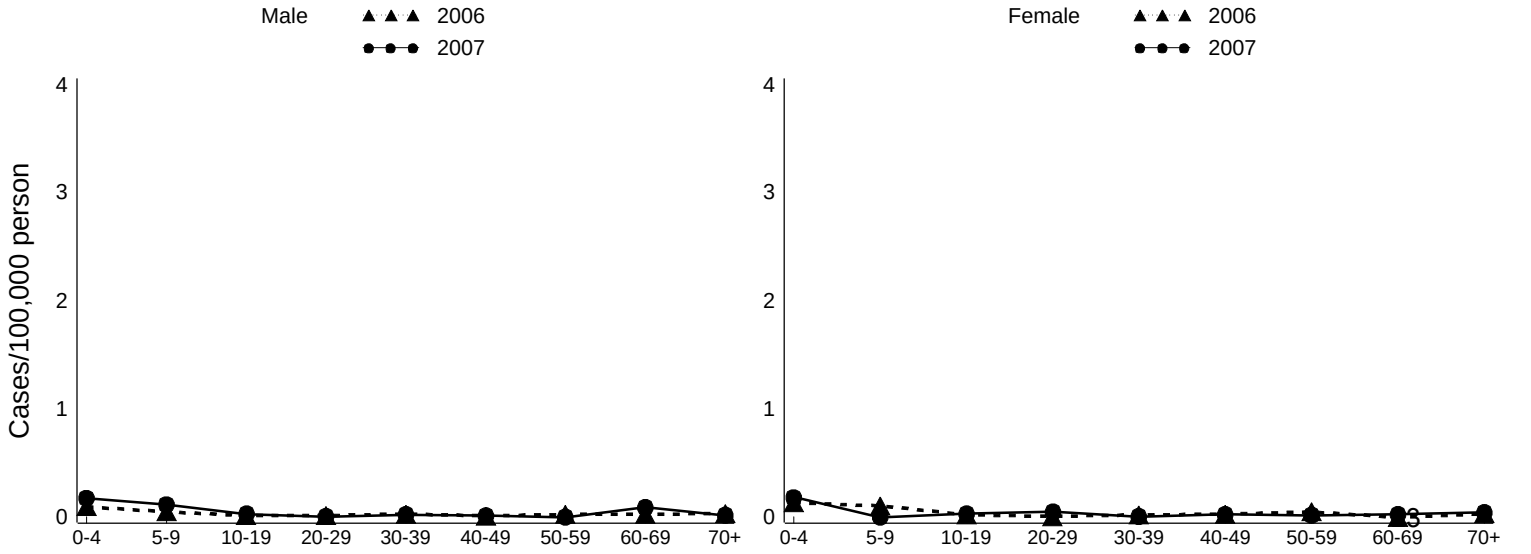


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	1	0.031	7	0.218	8	0.237
CO	3	0.116	8	0.309	5	0.196
CT	3	0.085	4	0.114	8	0.218
GA	22	0.242	17	0.187	20	0.224
MD	2	0.036	3	0.054	5	0.090
MN	8	0.156	4	0.078	9	0.173
NM	13	0.674	3	0.156	5	0.243
NY	9	0.209	3	0.070	10	0.276
OR	2	0.055	6	0.165	9	0.246
TN	6	0.101	5	0.084	4	0.064
ALL	69	0.154	60	0.133	81	0.188

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

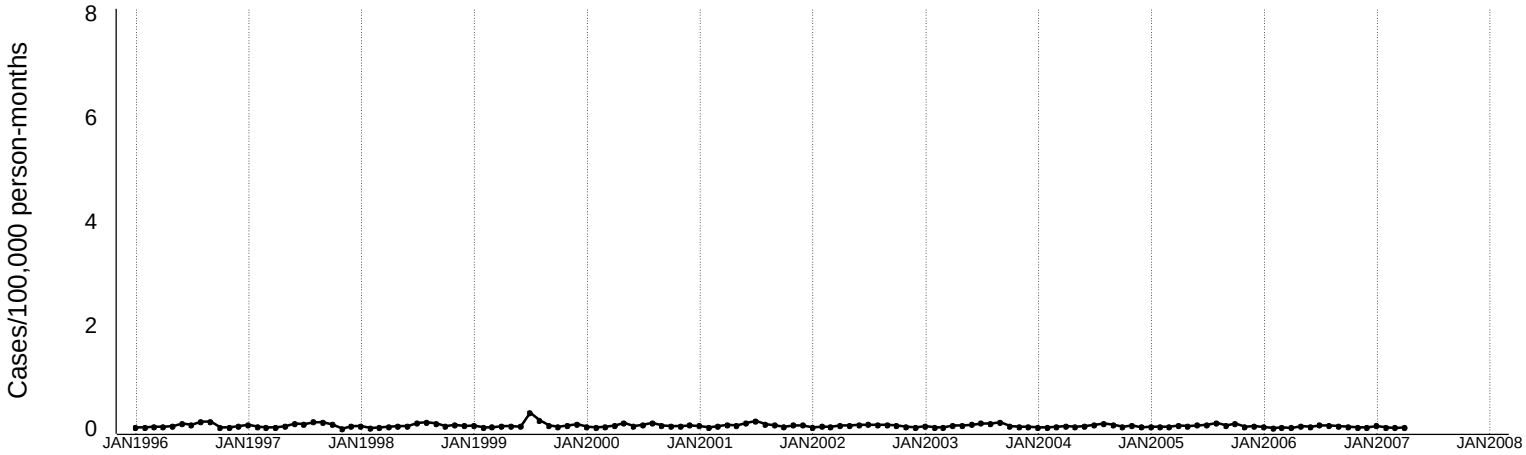


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

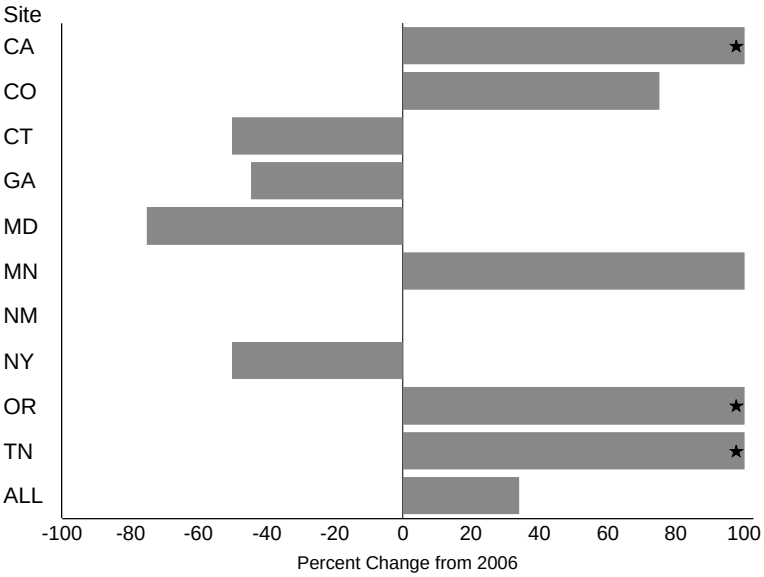
Report date: 29-June-2007

Salmonella Heidelberg

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

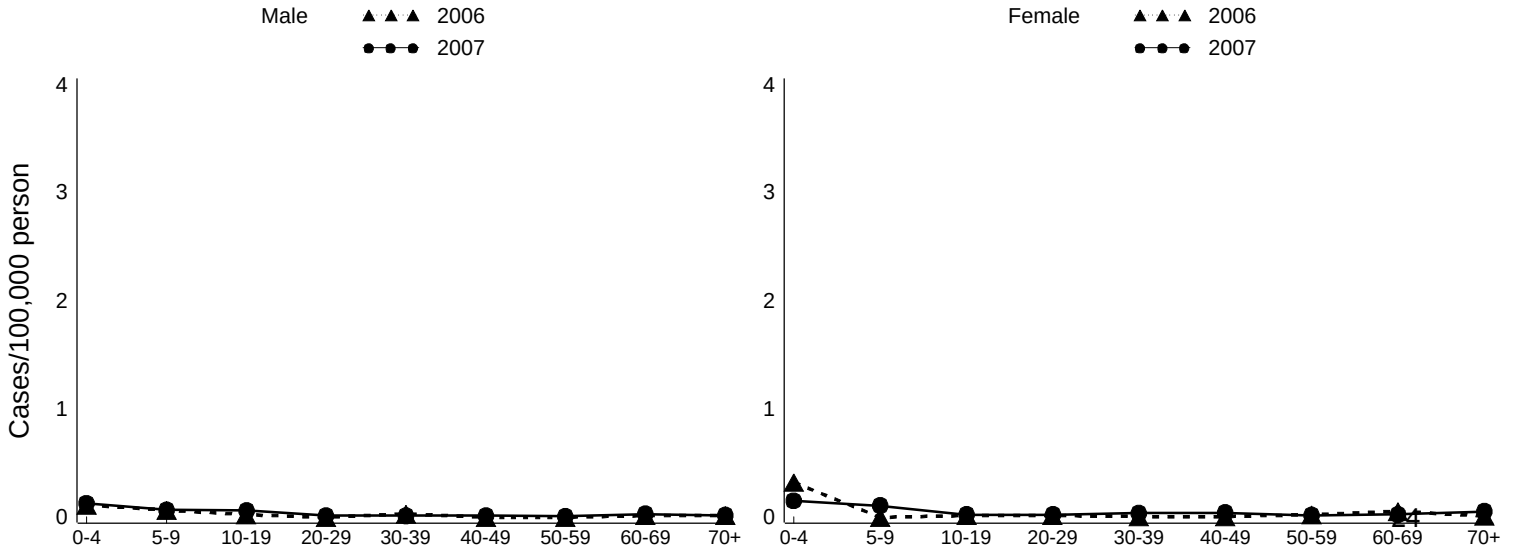


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	5	0.156	2	0.062	10	0.324
CO	7	0.271	4	0.155	4	0.150
CT	3	0.085	6	0.171	6	0.160
GA	10	0.110	18	0.198	19	0.214
MD	1	0.018	4	0.071	6	0.116
MN	6	0.117	3	0.058	6	0.122
NM	1	0.052	1	0.052	1	0.035
NY	3	0.070	6	0.139	7	0.171
OR	5	0.137	2	0.055	6	0.172
TN	30	0.503	7	0.117	9	0.174
ALL	71	0.158	53	0.118	74	0.174

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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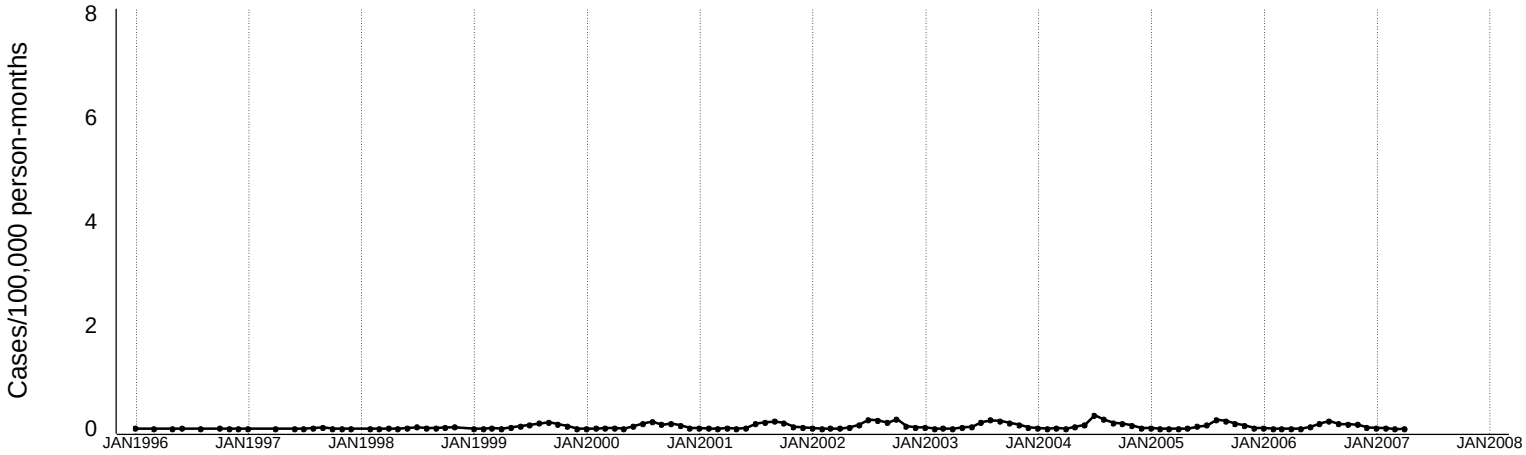
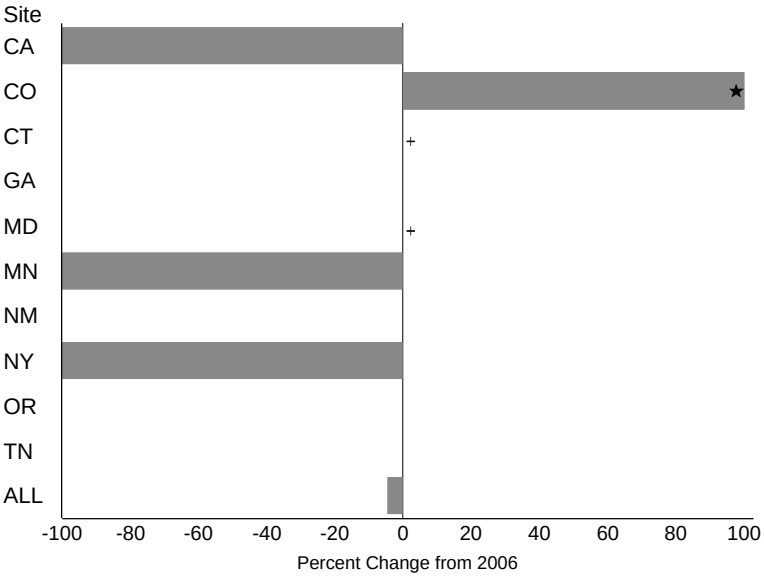
Report date: 29-June-2007

Salmonella Javiana

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

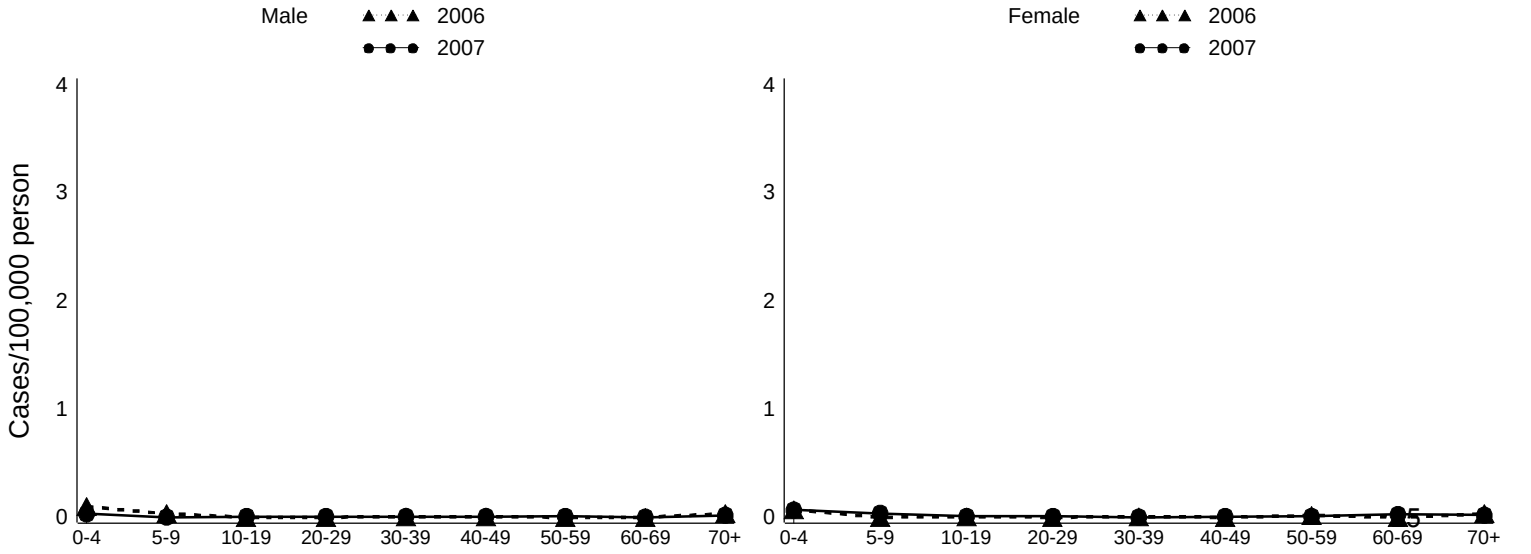


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	2	0.062	2	0.056
CO	3	0.116	1	0.039	0	0.008
CT	1	0.028	0	0.000	1	0.017
GA	13	0.143	13	0.143	14	0.156
MD	1	0.018	0	0.000	0	0.007
MN	0	0.000	2	0.039	2	0.031
NM	2	0.104	2	0.104	3	0.157
NY	0	0.000	1	0.023	0	0.009
OR	1	0.027	1	0.027	1	0.017
TN	1	0.017	1	0.017	2	0.038
ALL	22	0.049	23	0.051	24	0.054

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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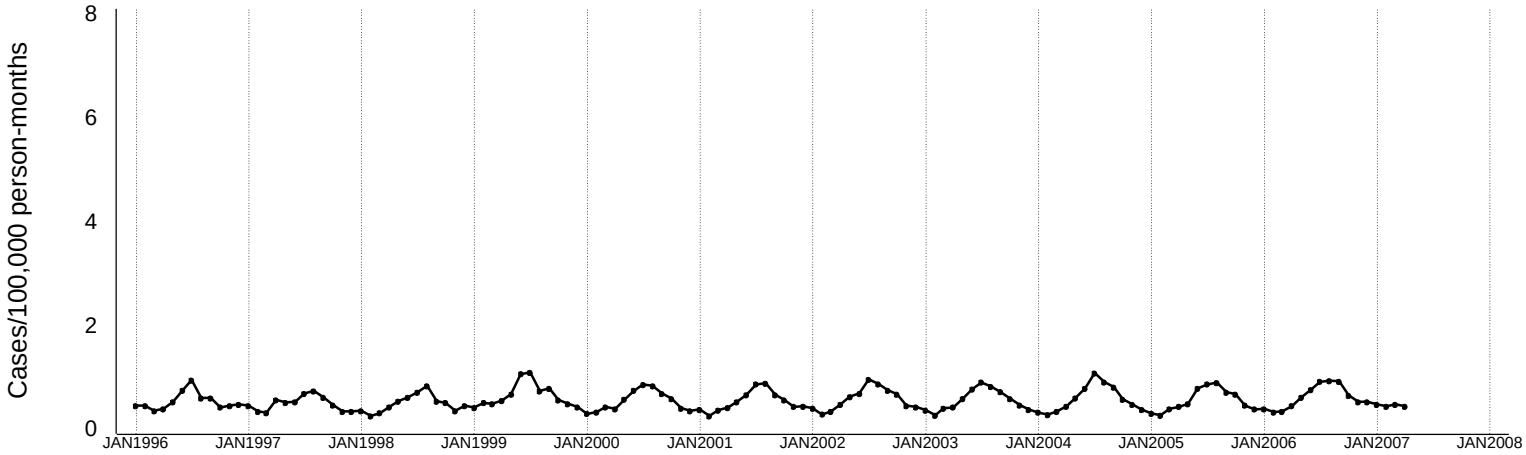
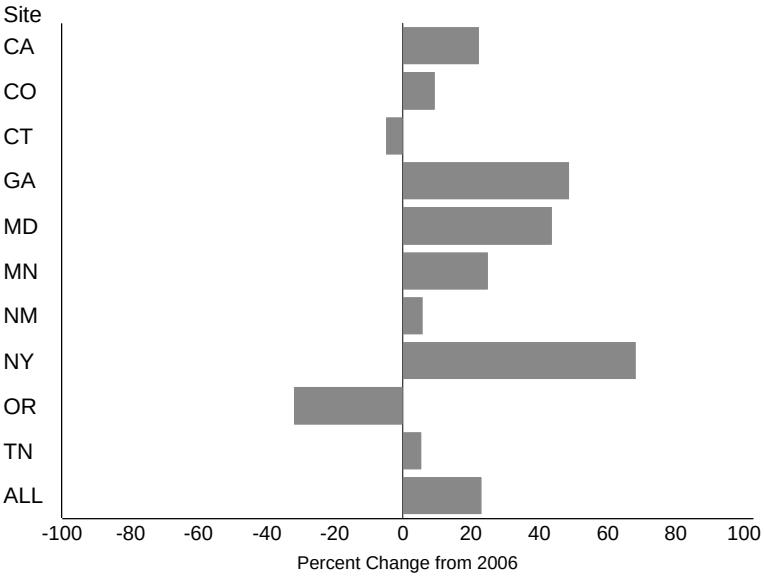
Report date: 29-June-2007

Salmonella, all others

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

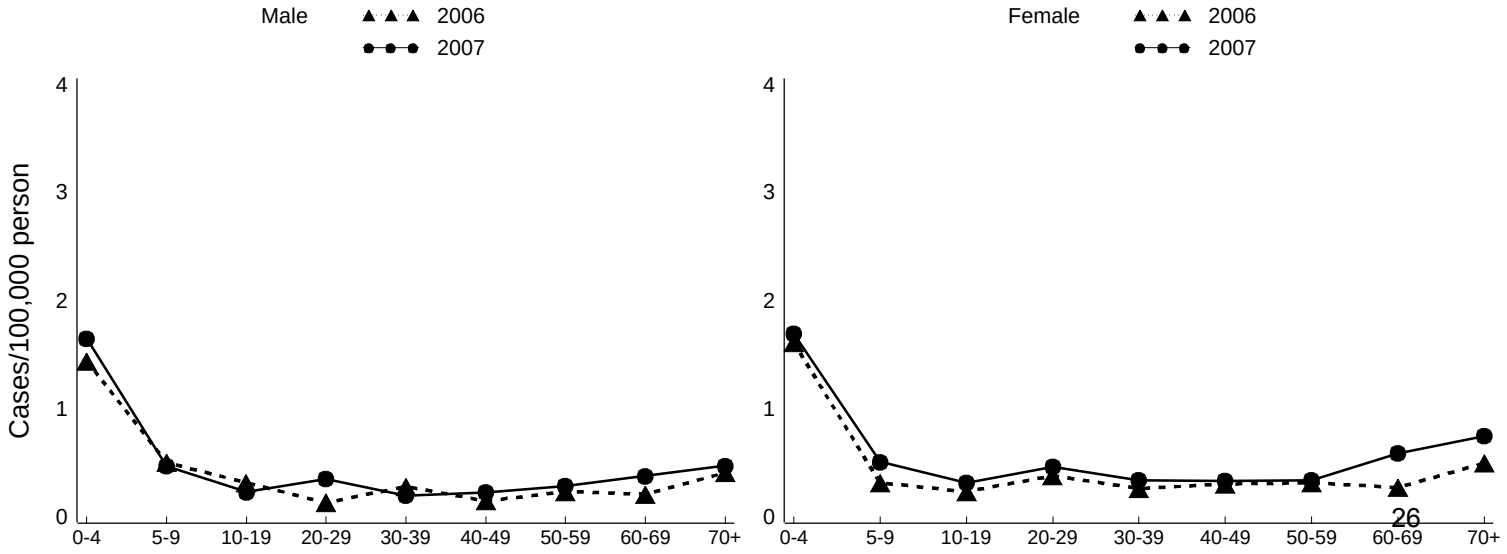


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	72	2.25	59	1.84	63	1.96
CO	48	1.86	44	1.70	37	1.43
CT	40	1.14	42	1.20	41	1.18
GA	214	2.36	144	1.59	142	1.60
MD	99	1.77	69	1.23	69	1.24
MN	86	1.68	69	1.34	66	1.30
NM	38	1.97	36	1.87	34	1.75
NY	84	1.95	50	1.16	48	1.19
OR	43	1.18	63	1.73	52	1.44
TN	102	1.71	97	1.63	80	1.49
ALL	826	1.84	673	1.50	631	1.44

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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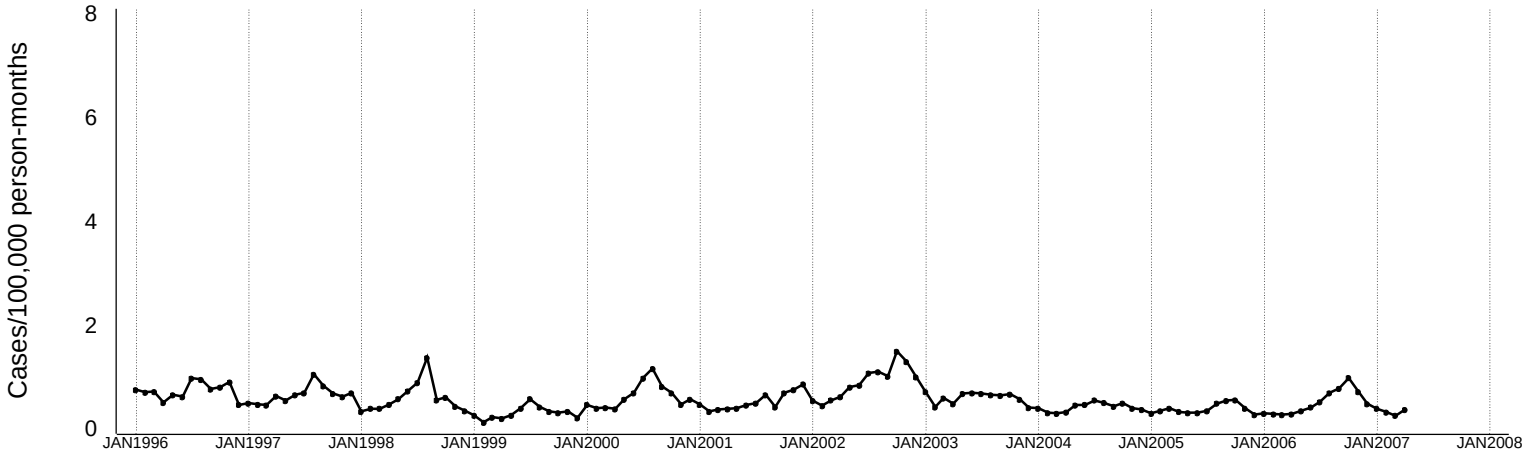
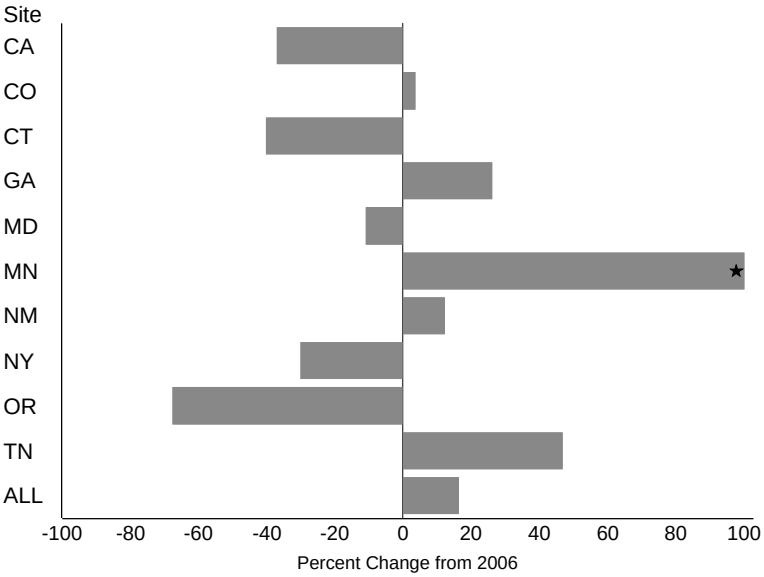
Shigella, all species

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

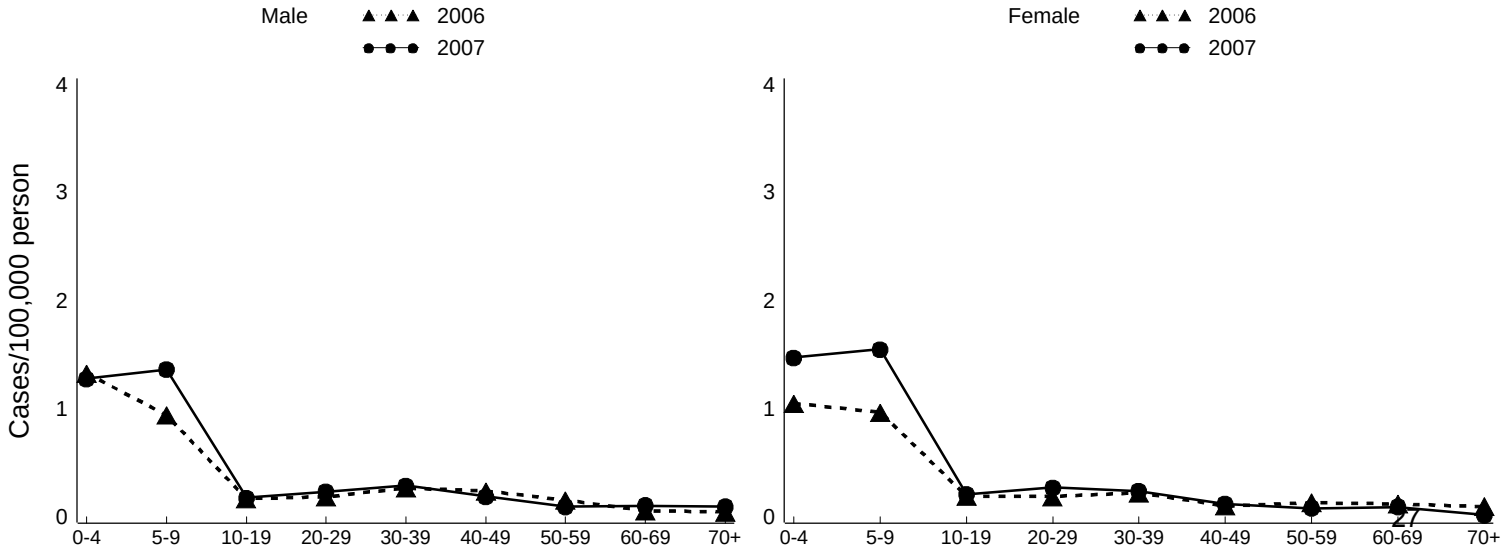


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	41	1.28	65	2.03	75	2.34
CO	29	1.12	28	1.08	25	0.97
CT	9	0.26	15	0.43	19	0.53
GA	315	3.47	250	2.76	276	3.13
MD	25	0.45	28	0.50	86	1.57
MN	91	1.77	27	0.53	30	0.60
NM	37	1.92	33	1.71	34	1.77
NY	7	0.16	10	0.23	34	0.83
OR	13	0.36	40	1.10	25	0.69
TN	44	0.74	30	0.50	112	1.97
ALL	611	1.36	526	1.17	716	1.66

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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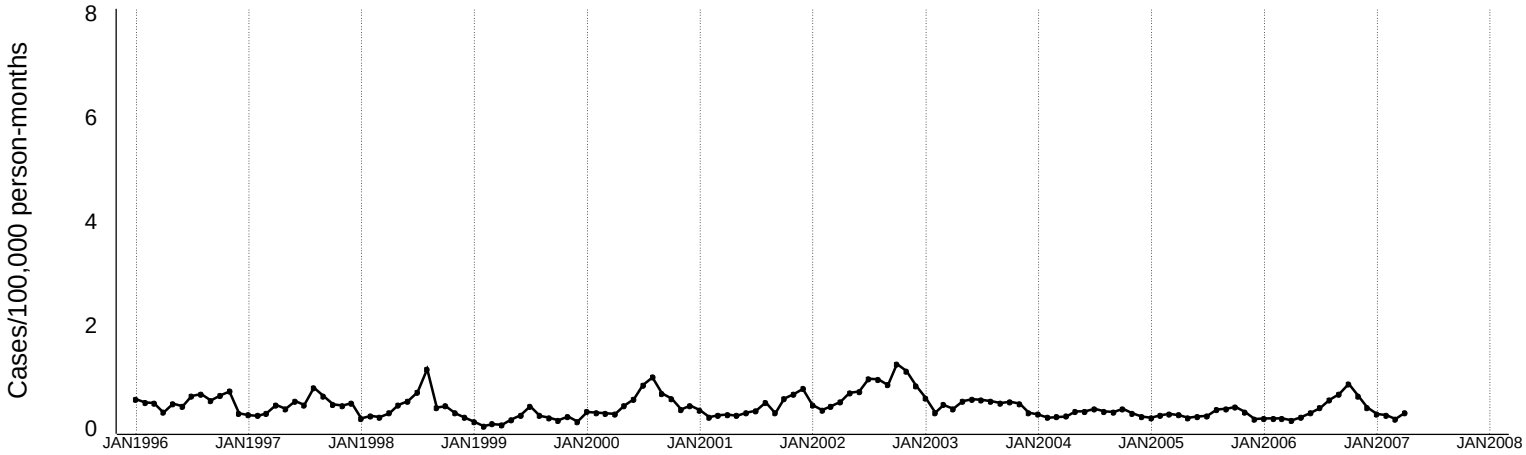
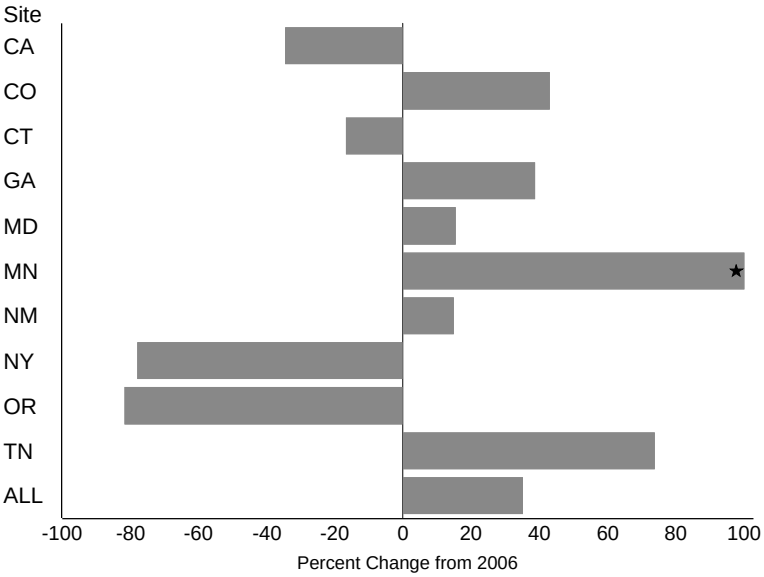
Shigella sonnei

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

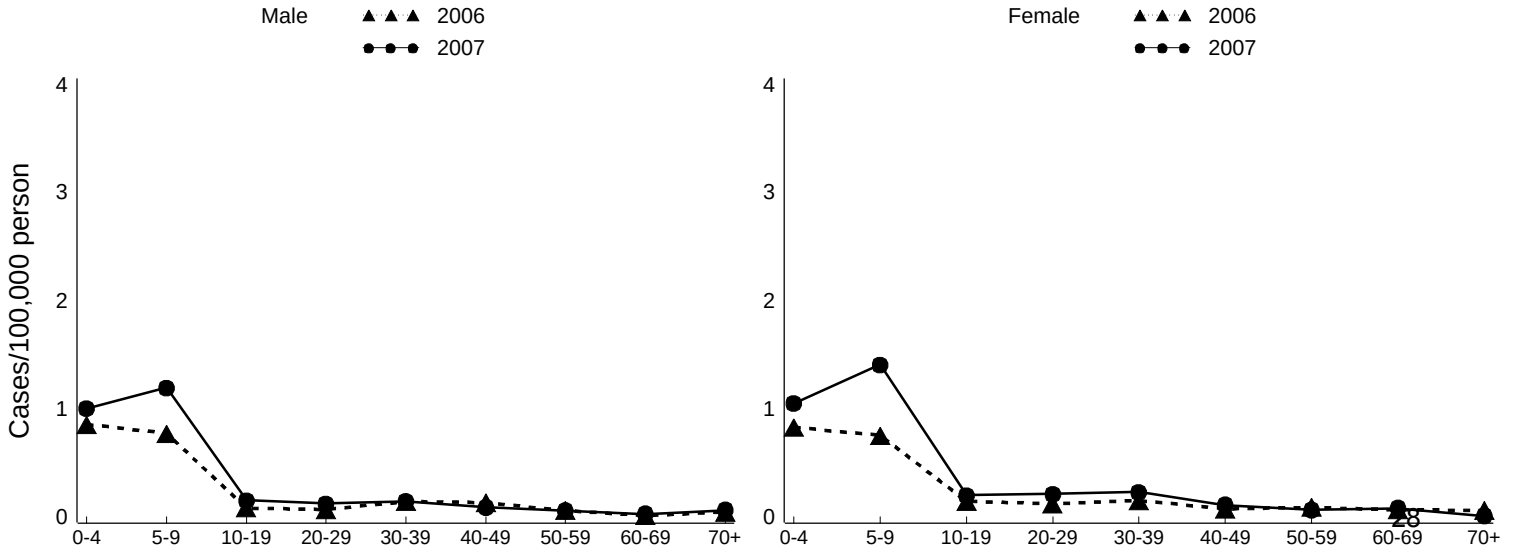


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	19	0.593	29	0.905	36	1.122
CO	20	0.773	14	0.541	15	0.583
CT	5	0.142	6	0.171	11	0.321
GA	262	2.888	189	2.083	220	2.498
MD	15	0.268	13	0.232	73	1.332
MN	82	1.598	18	0.351	21	0.422
NM	31	1.608	27	1.400	27	1.408
NY	2	0.046	9	0.209	31	0.743
OR	5	0.137	27	0.742	15	0.411
TN	33	0.553	19	0.319	100	1.716
ALL	474	1.055	351	0.781	549	1.279

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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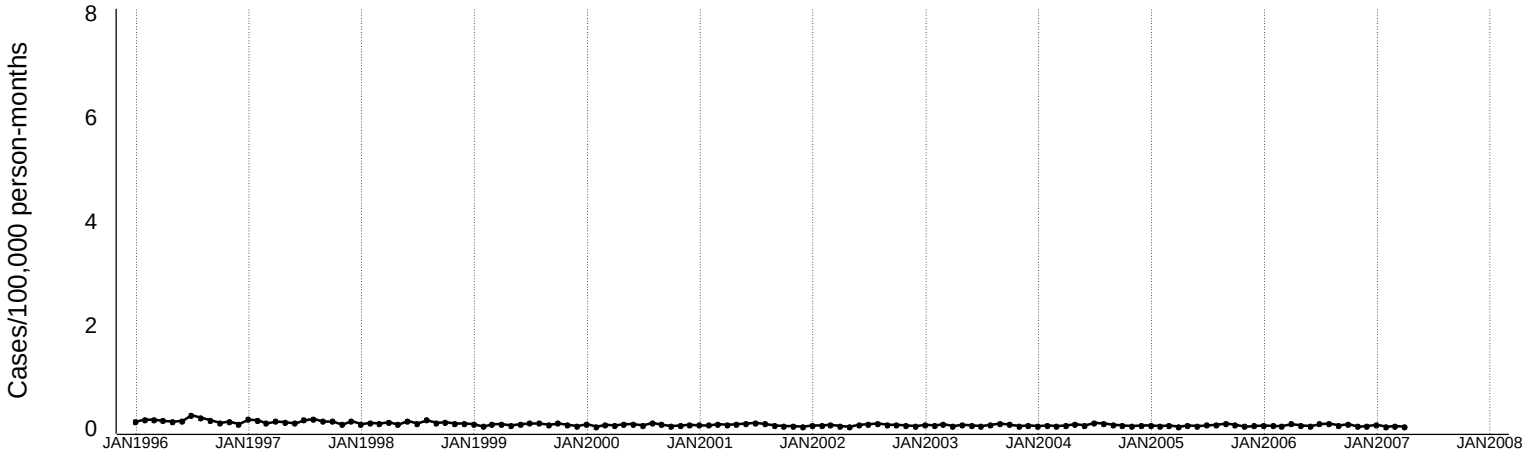
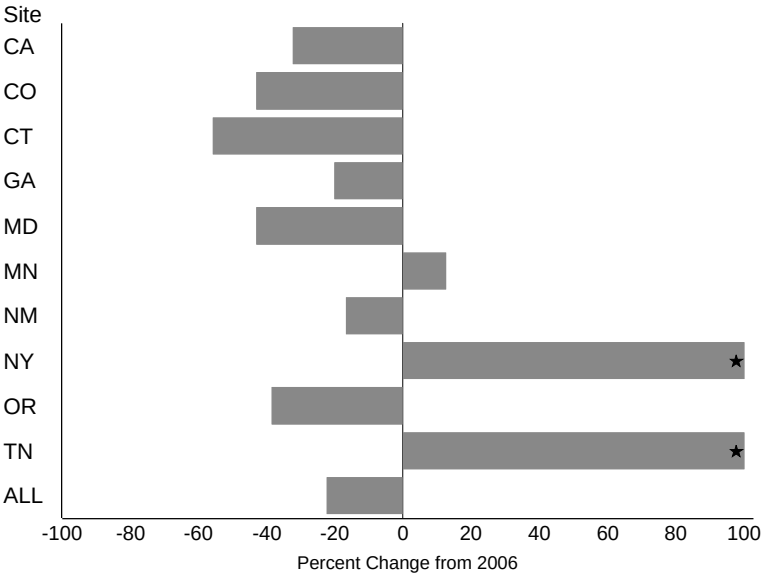
Shigella flexneri

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

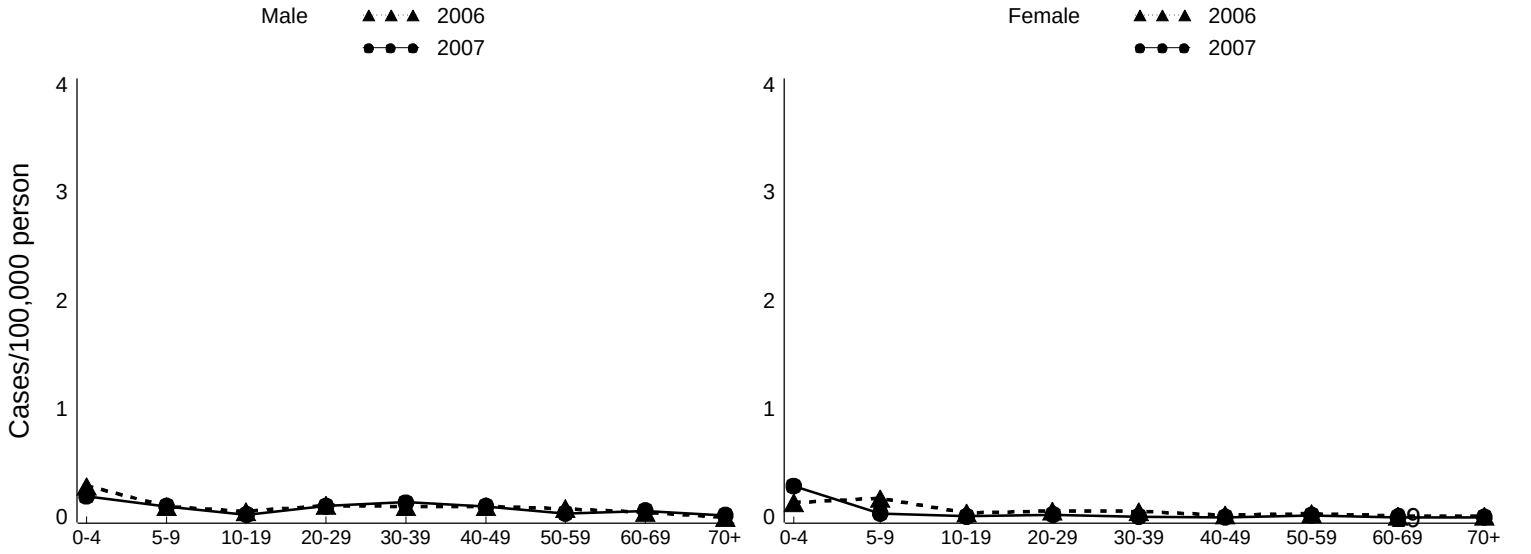


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	21	0.655	31	0.967	33	1.016
CO	8	0.309	14	0.541	9	0.368
CT	4	0.114	9	0.256	6	0.177
GA	24	0.265	30	0.331	27	0.307
MD	8	0.143	14	0.250	11	0.202
MN	9	0.175	8	0.156	8	0.157
NM	5	0.259	6	0.311	6	0.313
NY	4	0.093	1	0.023	3	0.075
OR	8	0.220	13	0.357	10	0.278
TN	10	0.168	4	0.067	5	0.102
ALL	101	0.225	130	0.289	119	0.271

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



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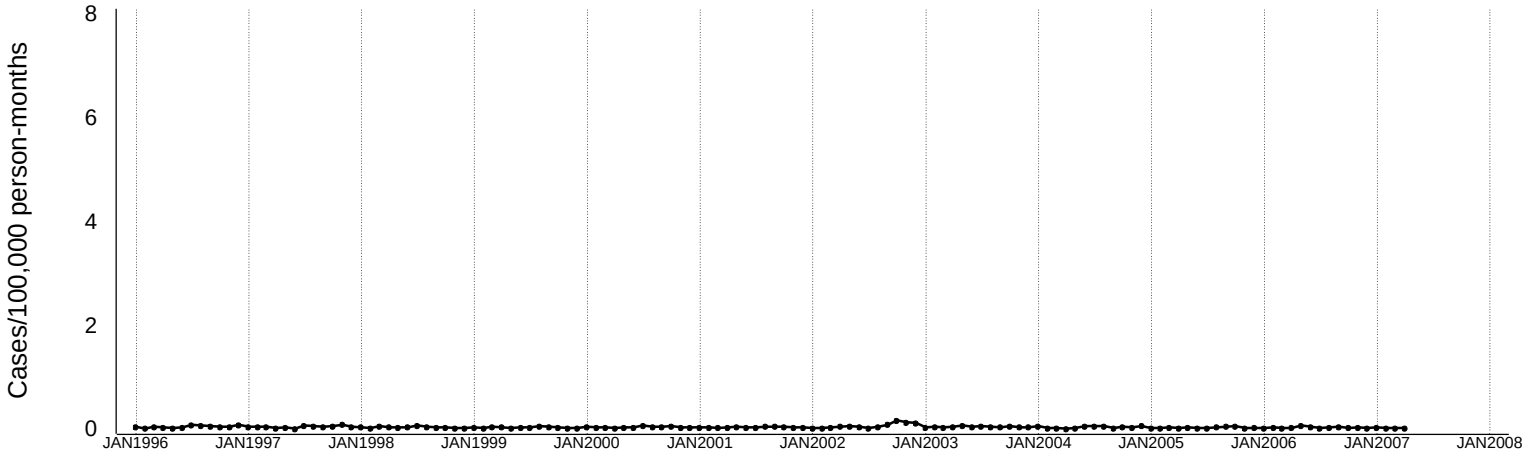
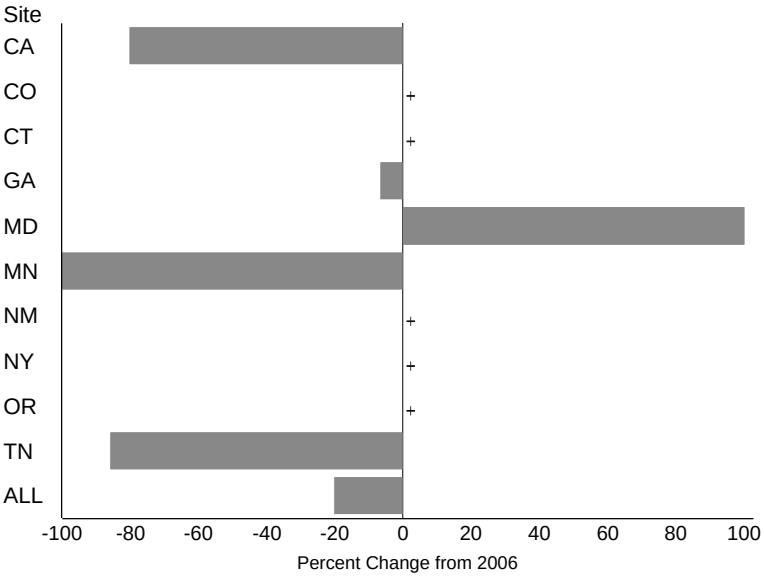
Shigella, all others

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

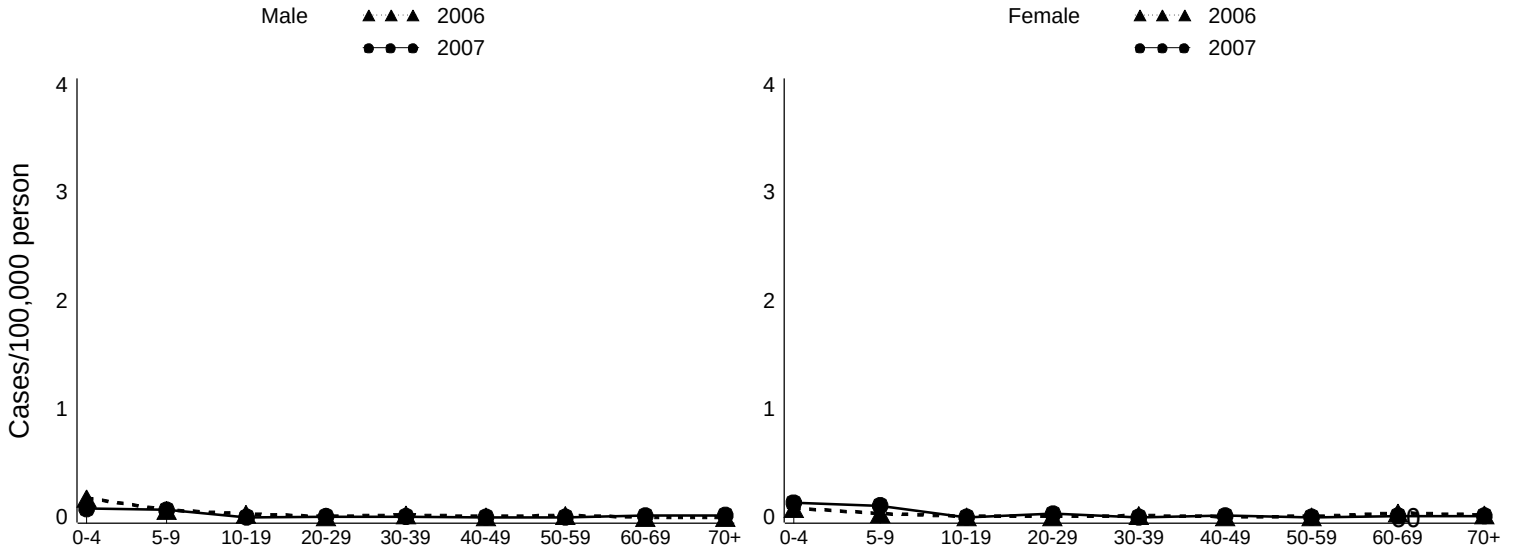


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	1	0.031	5	0.156	7	0.206
CO	1	0.039	0	0.000	0	0.016
CT	0	0.000	0	0.000	1	0.034
GA	29	0.320	31	0.342	29	0.322
MD	2	0.036	1	0.018	2	0.033
MN	0	0.000	1	0.019	1	0.016
NM	1	0.052	0	0.000	1	0.052
NY	1	0.023	0	0.000	0	0.010
OR	0	0.000	0	0.000	0	0.000
TN	1	0.017	7	0.117	7	0.147
ALL	36	0.080	45	0.100	48	0.112

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

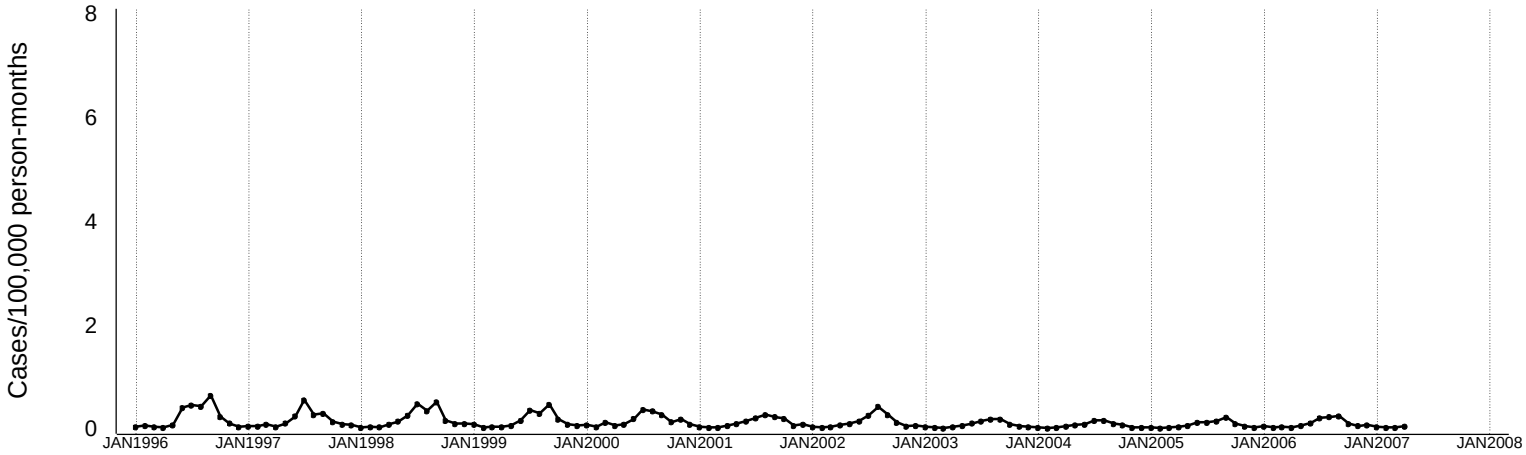


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

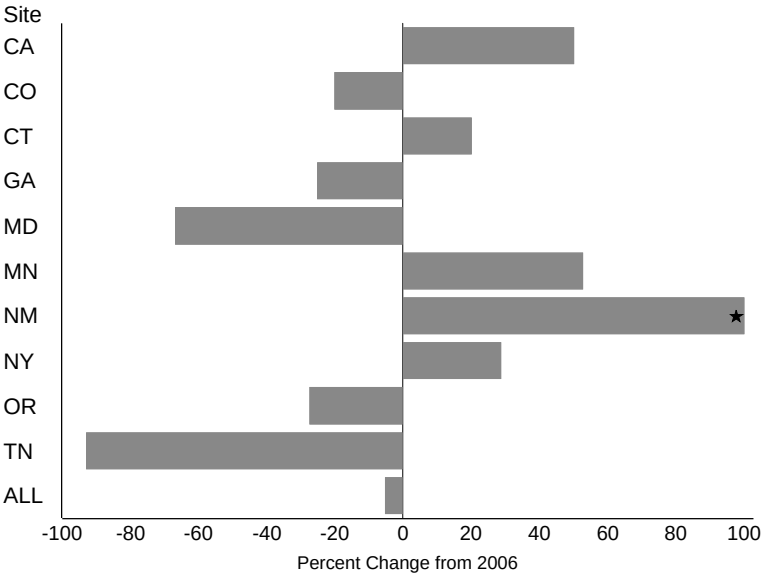
Report date: 29-June-2007

STEC O157

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

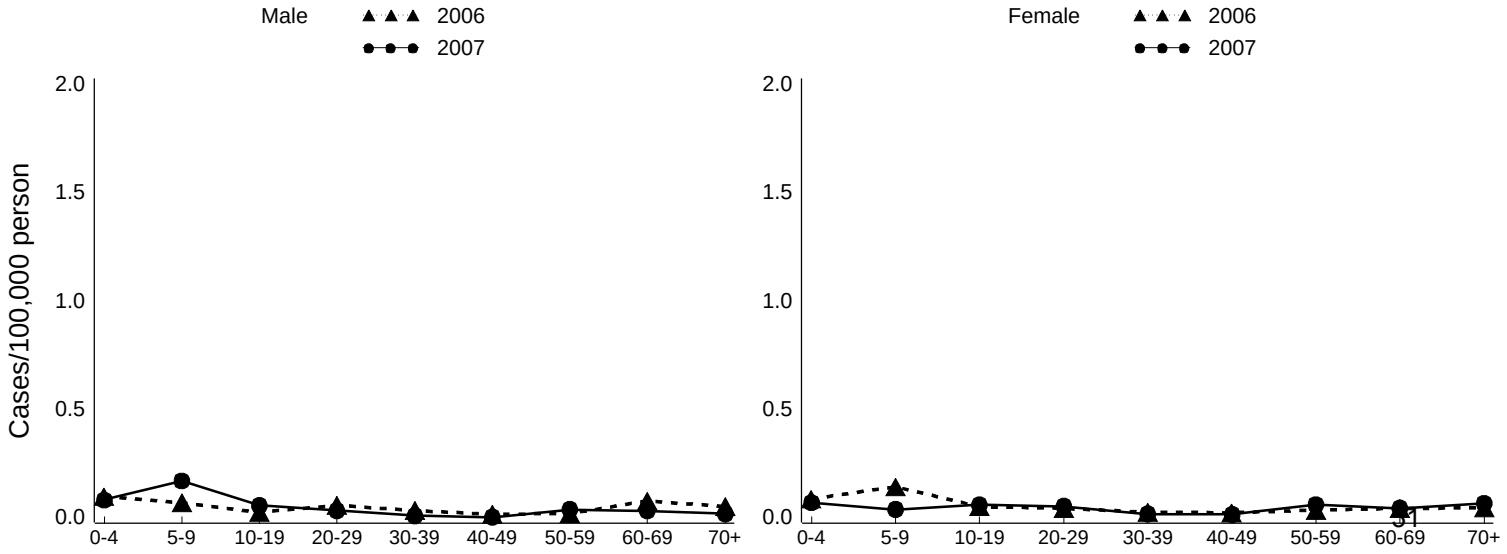


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	6	0.187	4	0.125	4	0.112
CO	4	0.155	5	0.193	6	0.220
CT	6	0.171	5	0.142	6	0.178
GA	6	0.066	8	0.088	8	0.088
MD	1	0.018	3	0.054	2	0.036
MN	29	0.565	19	0.370	16	0.319
NM	3	0.156	1	0.052	1	0.070
NY	9	0.209	7	0.162	6	0.150
OR	8	0.220	11	0.302	9	0.246
TN	1	0.017	14	0.235	8	0.156
ALL	73	0.162	77	0.171	66	0.154

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

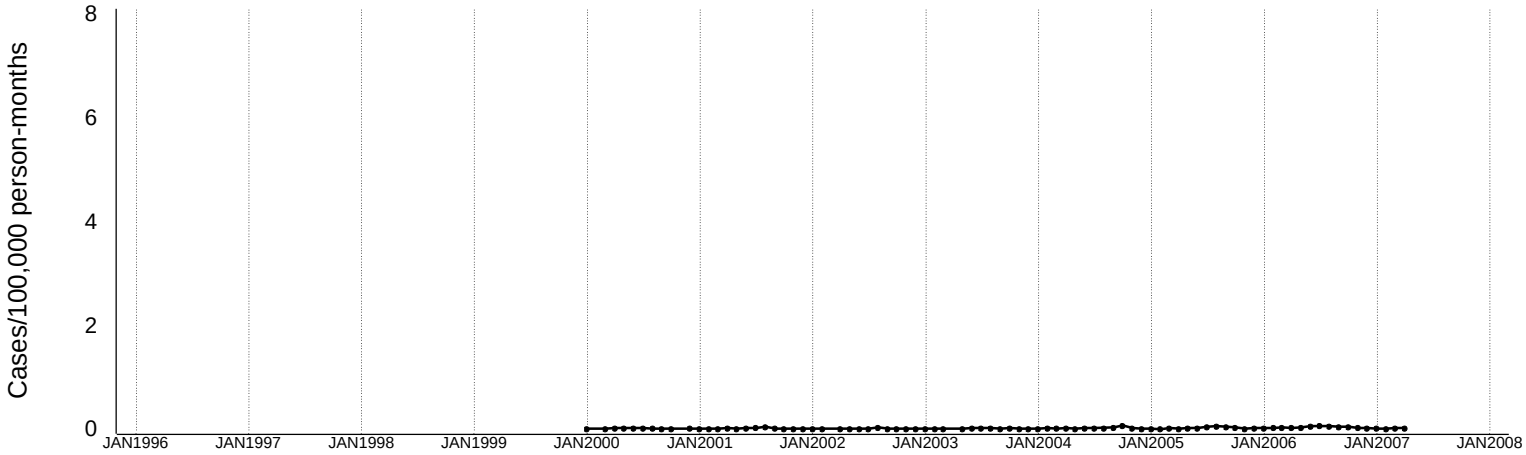


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

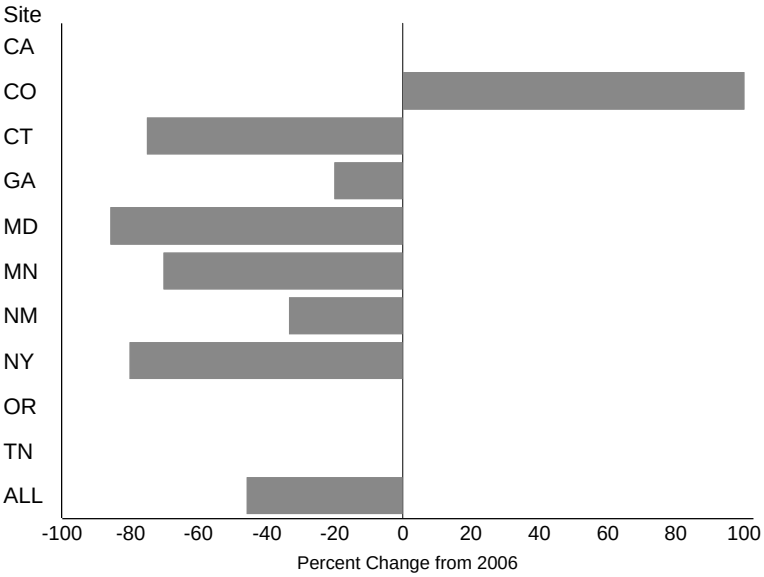
Report date: 29-June-2007

STEC Non-O157

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

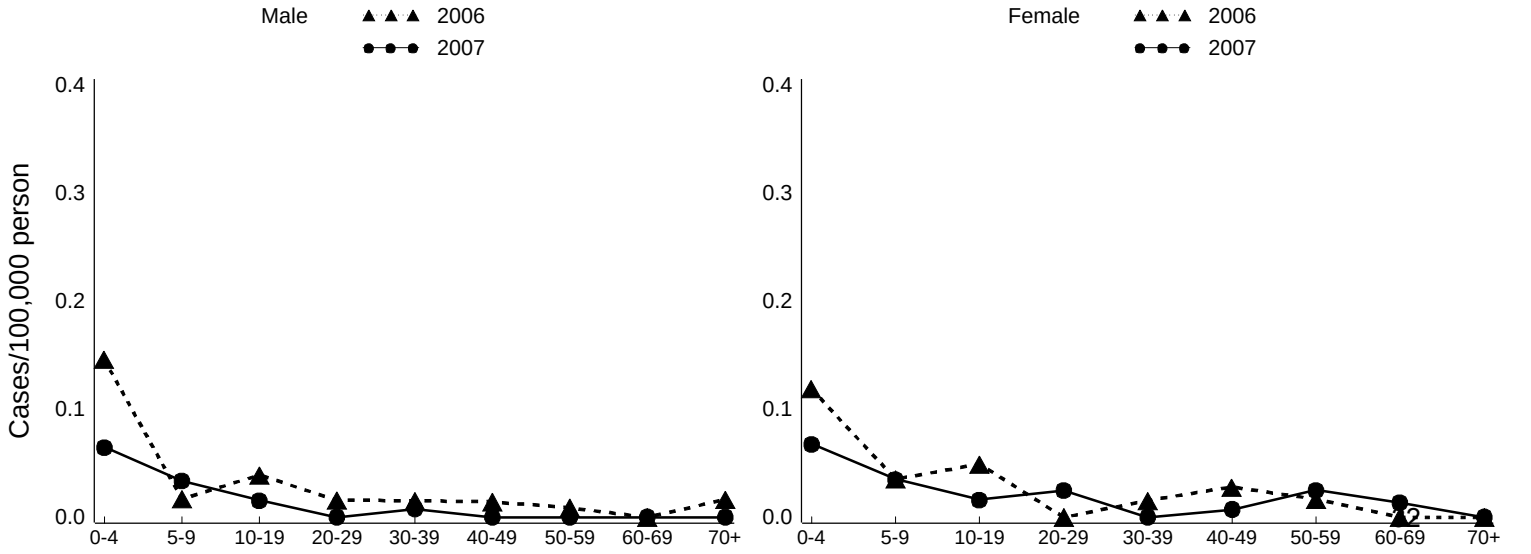


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	2	0.062	2	0.062	0	0.012
CO	8	0.309	4	0.155	1	0.039
CT	2	0.057	8	0.228	5	0.154
GA	4	0.044	5	0.055	2	0.020
MD	1	0.018	7	0.125	2	0.043
MN	3	0.058	10	0.195	4	0.074
NM	2	0.104	3	0.156	3	0.139
NY	1	0.023	5	0.116	1	0.033
OR	1	0.027	1	0.027	1	0.022
TN	1	0.017	1	0.017	0	0.007
ALL	25	0.056	46	0.102	20	0.043

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

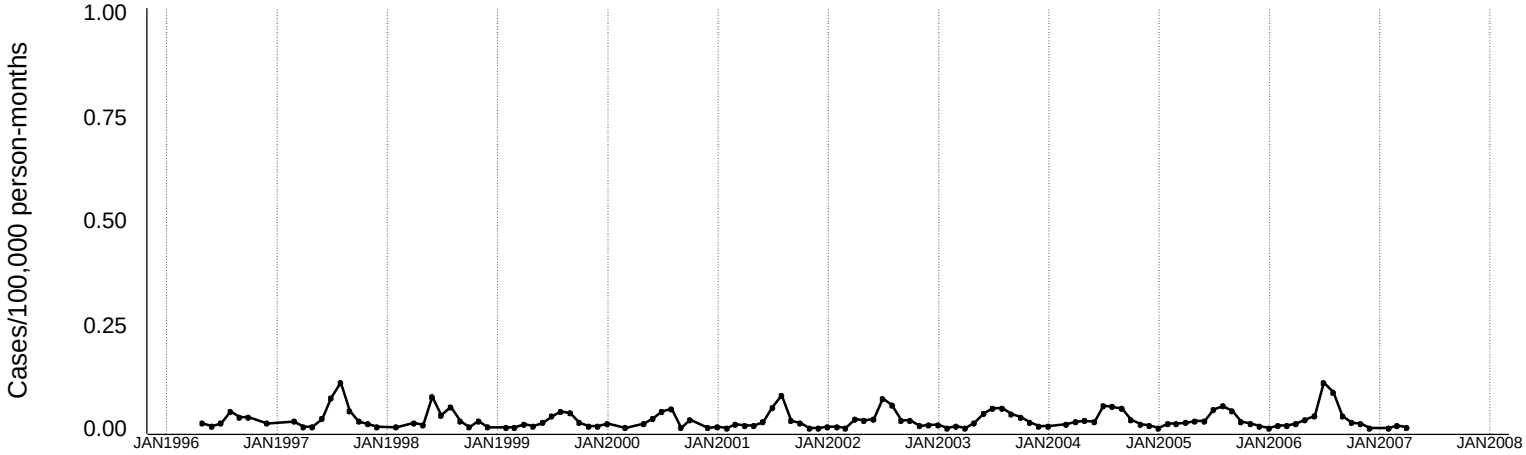


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

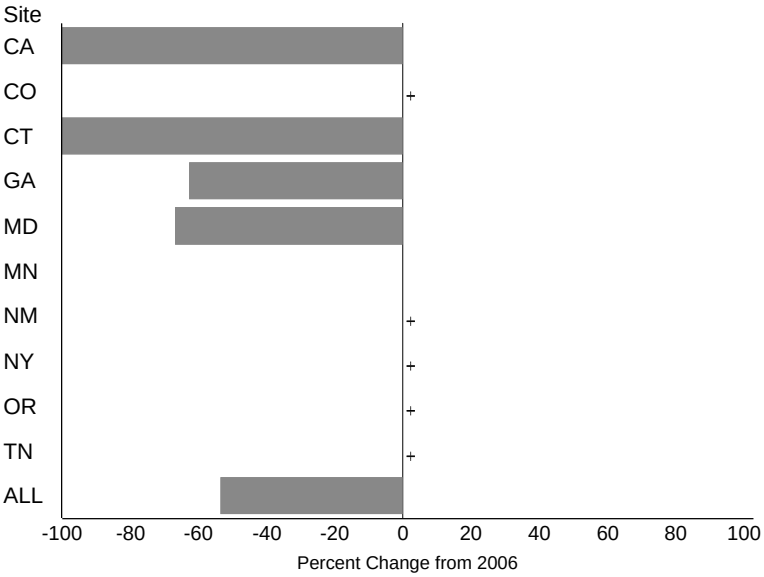
Report date: 29-June-2007

Vibrio, all species

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

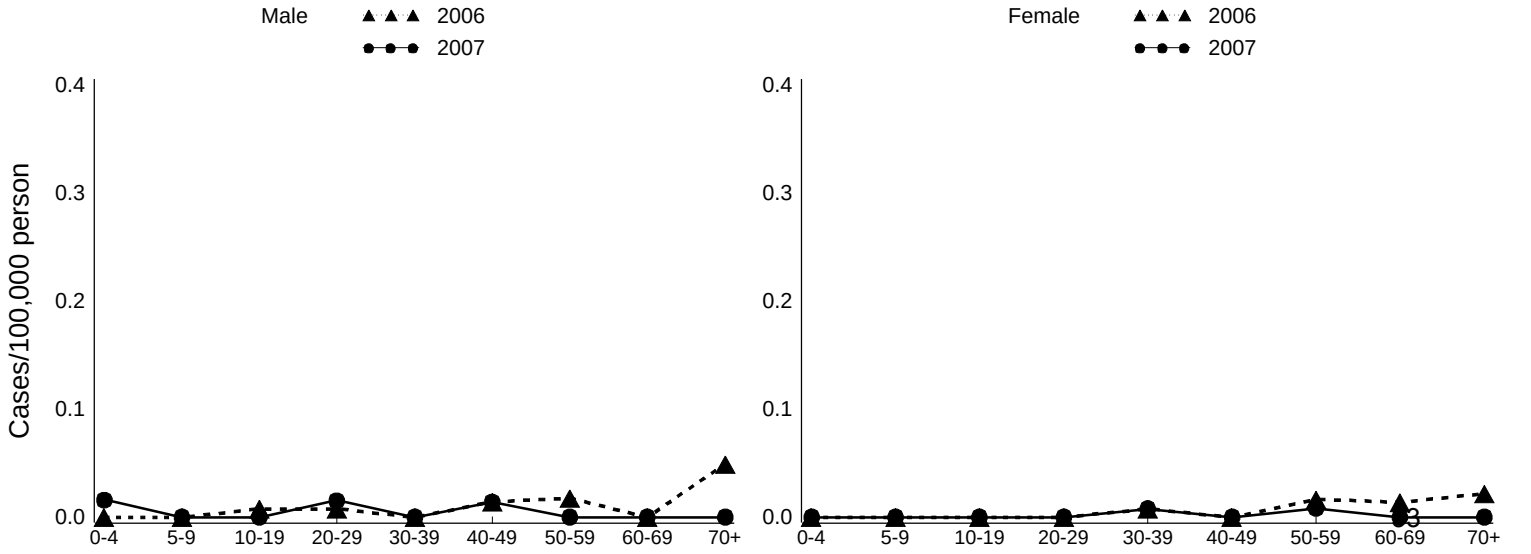


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	2	0.062	3	0.081
CO	1	0.039	0	0.000	0	0.016
CT	0	0.000	1	0.028	1	0.040
GA	3	0.033	8	0.088	4	0.045
MD	1	0.018	3	0.054	2	0.036
MN	1	0.019	1	0.019	2	0.035
NM	0	0.000	0	0.000	0	0.000
NY	1	0.023	0	0.000	1	0.031
OR	0	0.000	0	0.000	1	0.017
TN	0	0.000	0	0.000	1	0.014
ALL	7	0.016	15	0.033	15	0.034

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

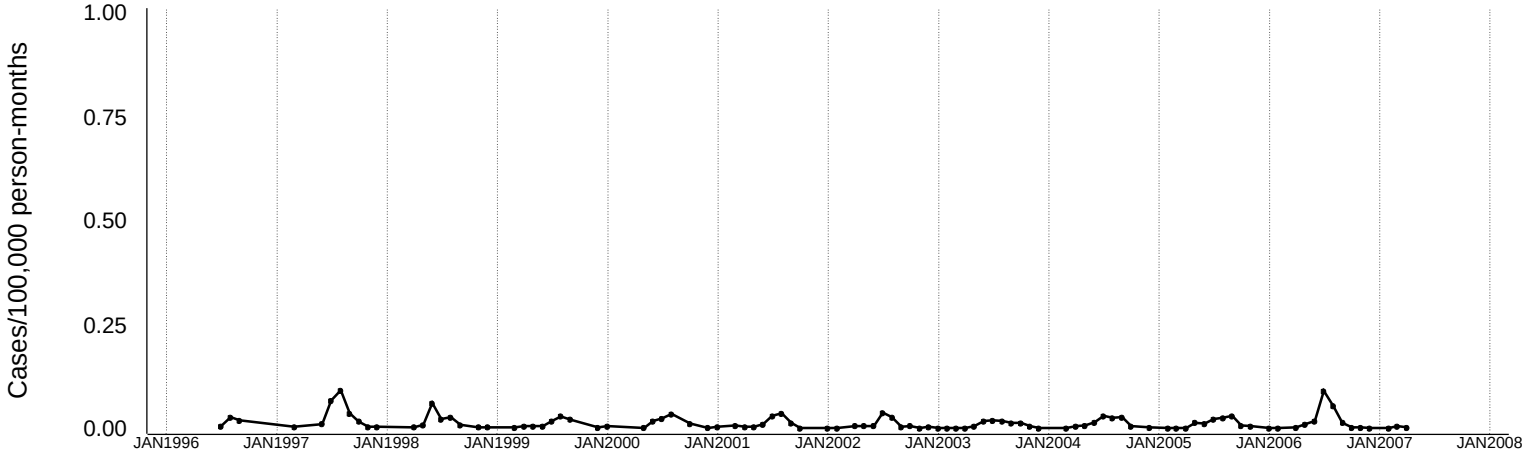
Calendar year through April: Rates for 2006 and 2007 by age group and sex



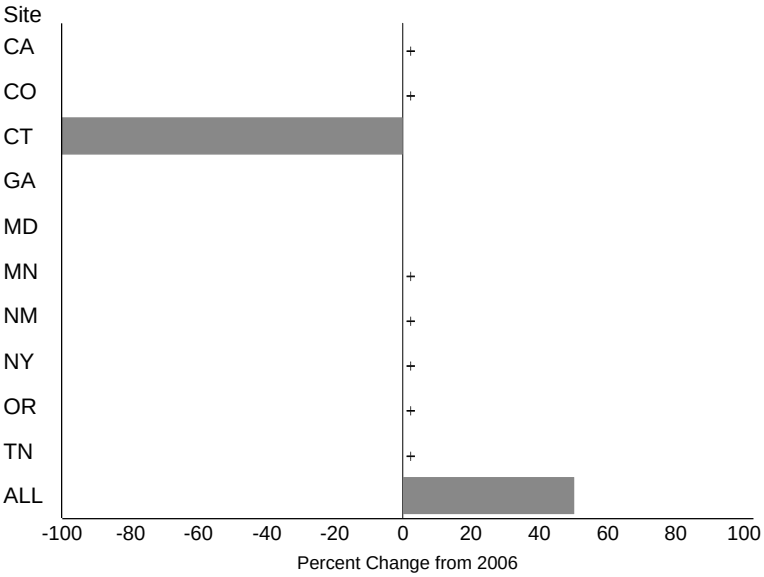
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Vibrio parahaemolyticus

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site



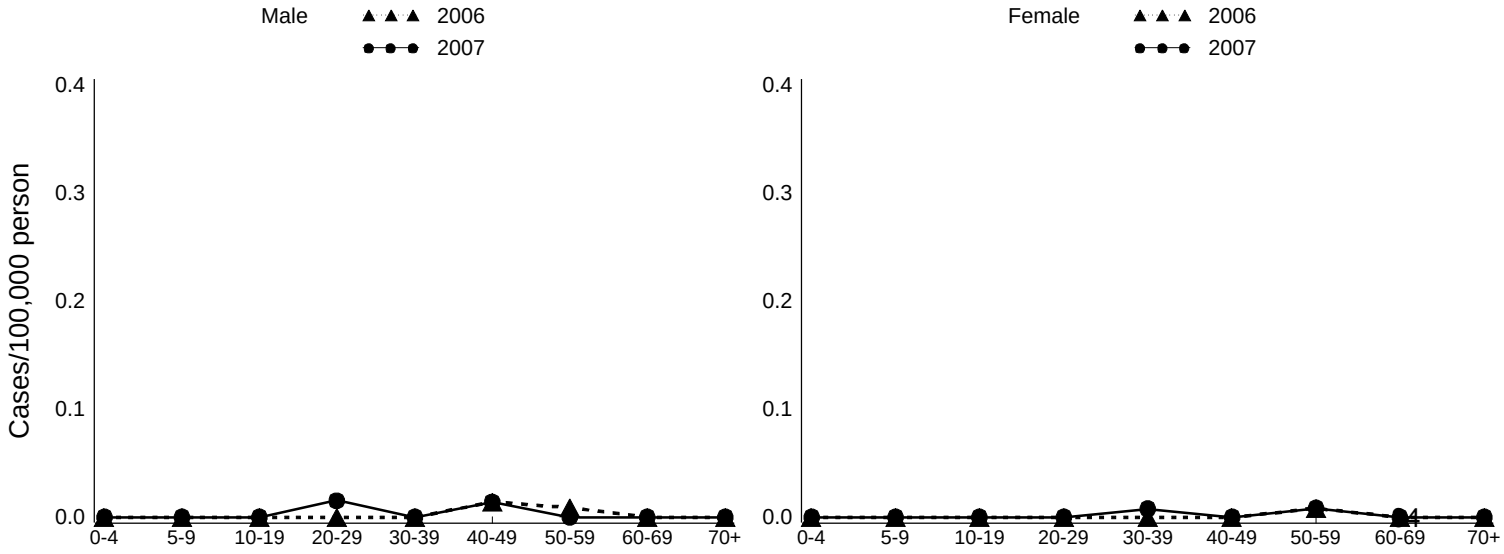
	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	0	0.000	1	0.031
CO	1	0.039	0	0.000	0	0.008
CT	0	0.000	1	0.028	0	0.006
GA	2	0.022	2	0.022	0	0.004
MD	1	0.018	1	0.018	1	0.014
MN	1	0.019	0	0.000	0	0.008
NM	0	0.000	0	0.000	0	0.000
NY	1	0.023	0	0.000	0	0.010
OR	0	0.000	0	0.000	0	0.011
TN	0	0.000	0	0.000	0	0.003
ALL	6	0.013	4	0.009	4	0.009

*year 2002-2006 except for NM (2004-2006)

^cases/100,000 person

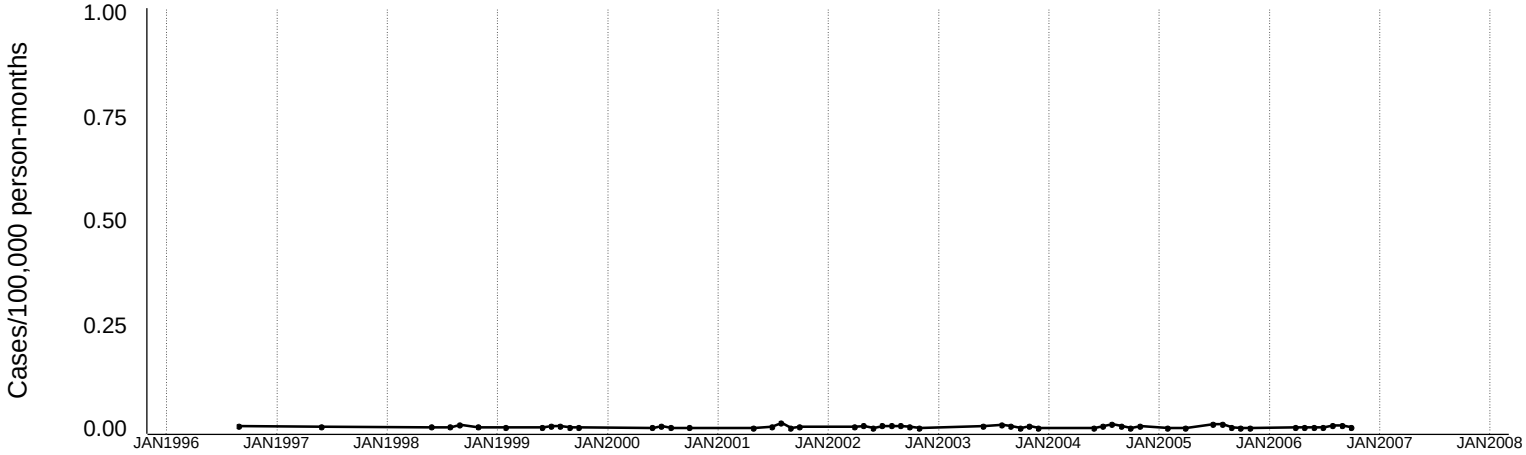
* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

Calendar year through April: Rates for 2006 and 2007 by age group and sex

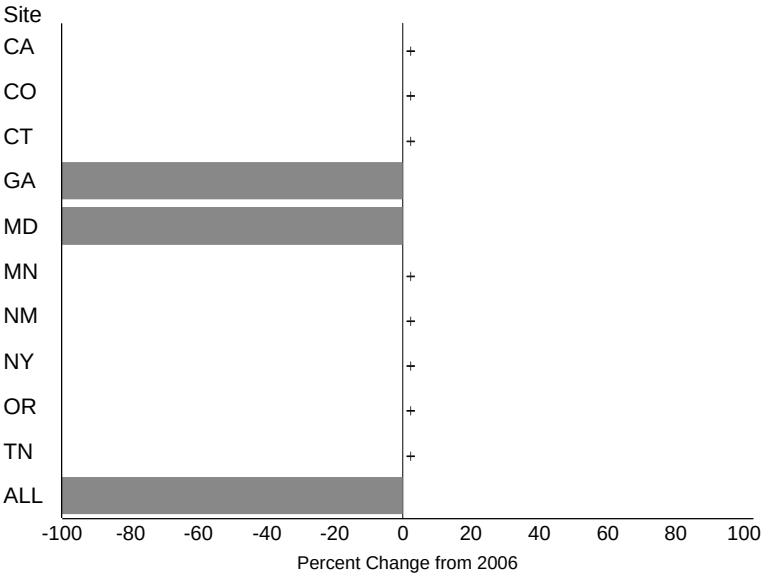


Vibrio vulnificus

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

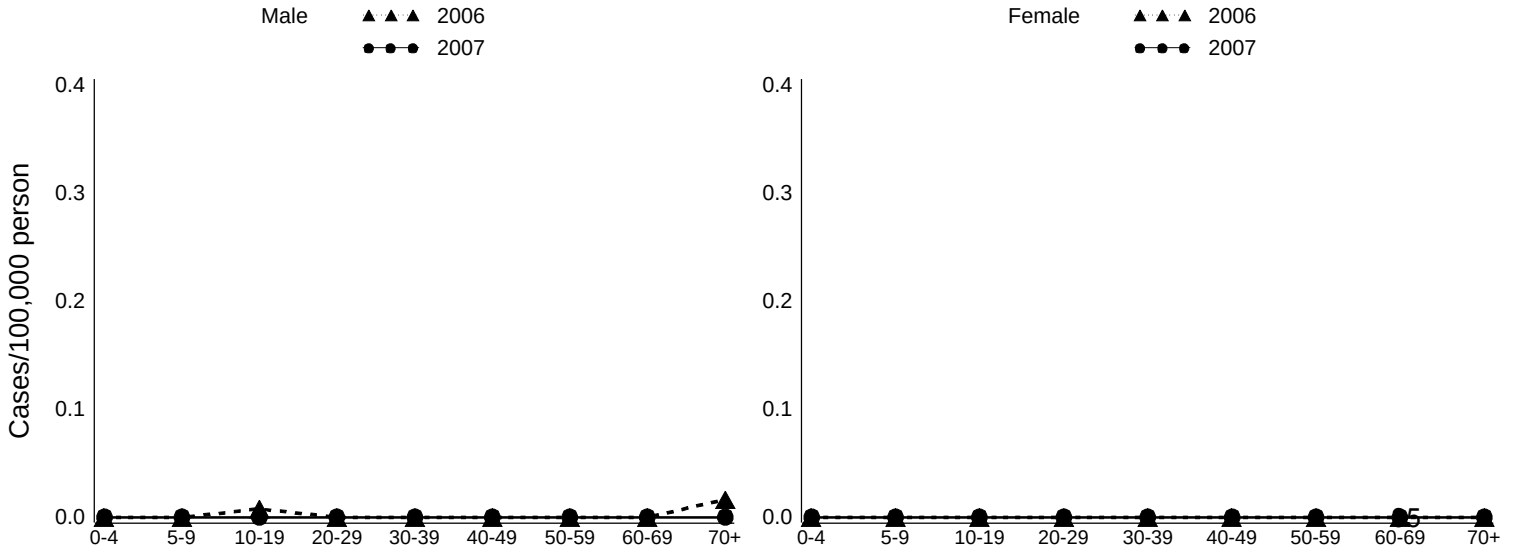


	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	0	0.000	0	0.000
CO	0	0.000	0	0.000	0	0.000
CT	0	0.000	0	0.000	0	0.000
GA	0	0.000	1	0.011	1	0.007
MD	0	0.000	1	0.018	0	0.007
MN	0	0.000	0	0.000	0	0.004
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.000
TN	0	0.000	0	0.000	0	0.000
ALL	0	0.000	2	0.004	1	0.003

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

Calendar year through April: Rates for 2006 and 2007 by age group and sex

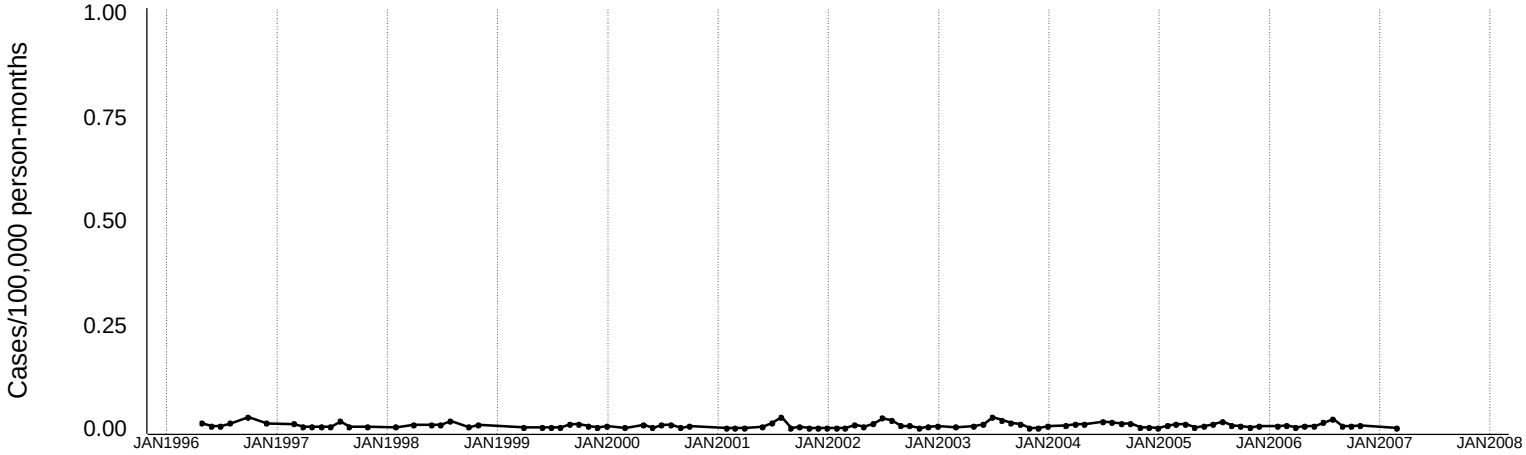


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

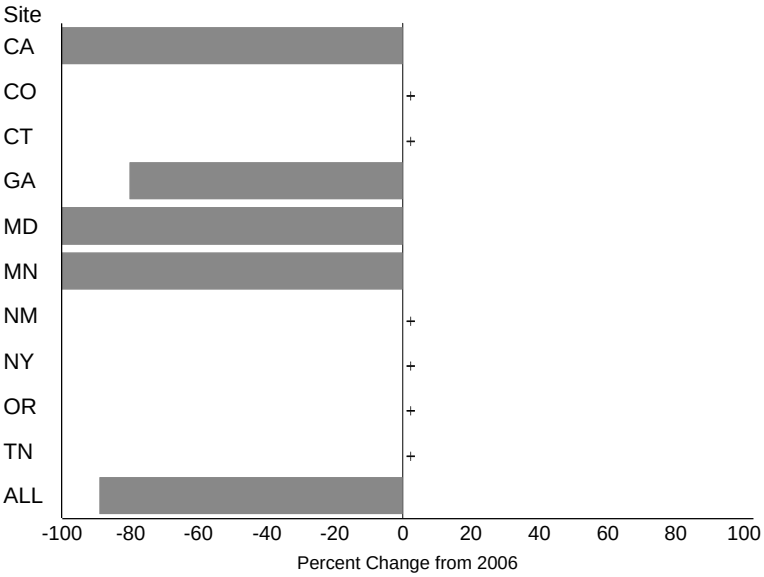
Report date: 29-June-2007

Vibrio, all others

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

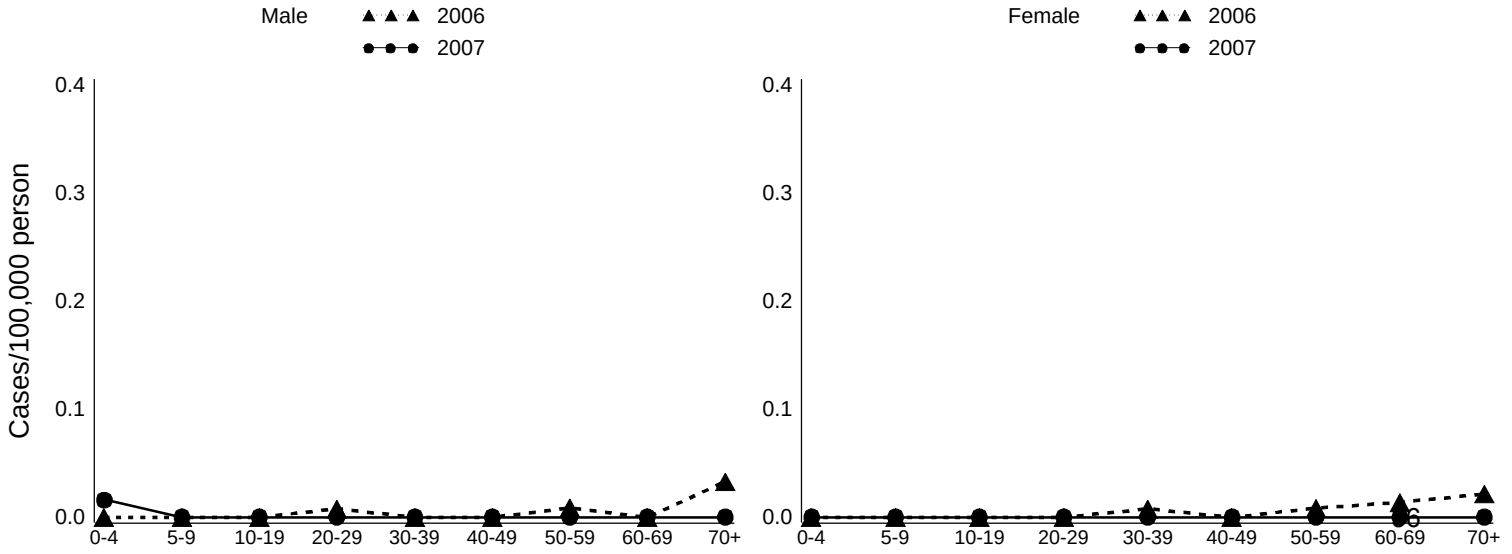


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	**Cases**	**Rate^**	**Cases**	**Rate^**	**Cases**	**Rate^**
CA	0	0.000	2	0.062	2	0.050
CO	0	0.000	0	0.000	0	0.008
CT	0	0.000	0	0.000	1	0.034
GA	1	0.011	5	0.055	3	0.033
MD	0	0.000	1	0.018	1	0.014
MN	0	0.000	1	0.019	1	0.023
NM	0	0.000	0	0.000	0	0.000
NY	0	0.000	0	0.000	1	0.022
OR	0	0.000	0	0.000	0	0.006
TN	0	0.000	0	0.000	1	0.010
ALL	1	0.002	9	0.020	10	0.022

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

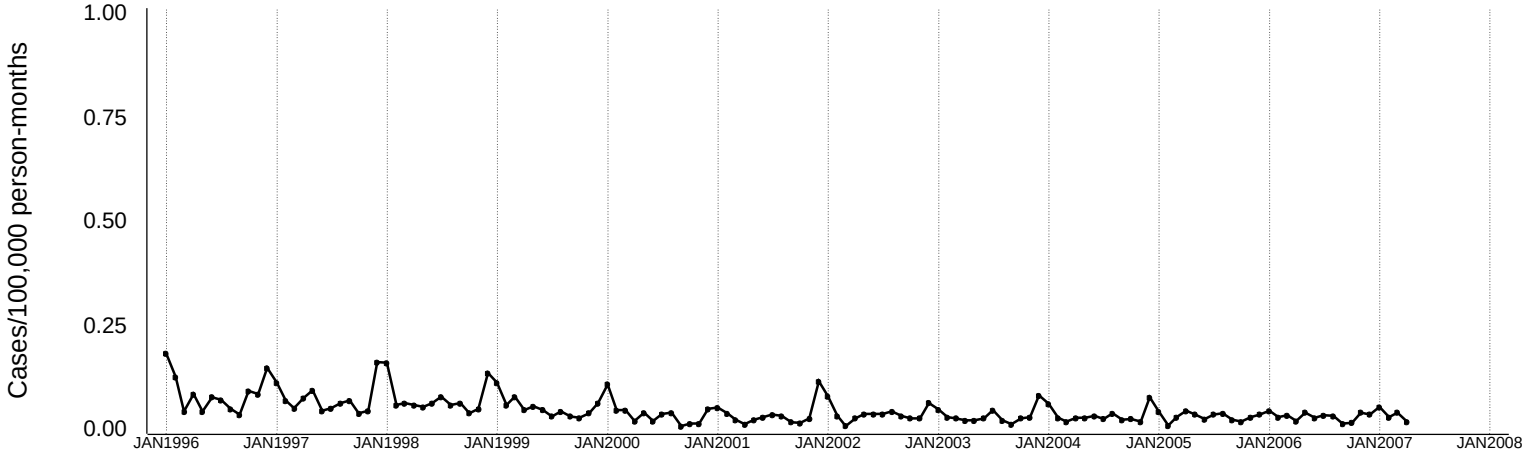


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

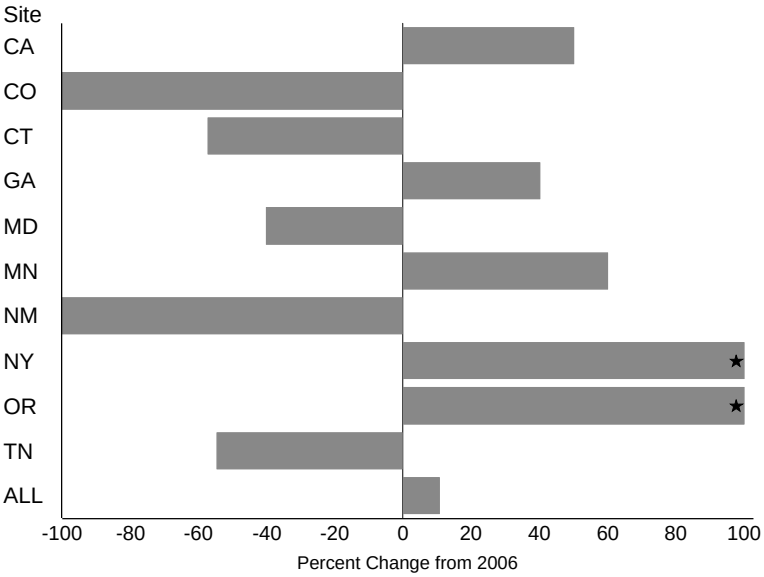
Report date: 29-June-2007

Yersinia

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

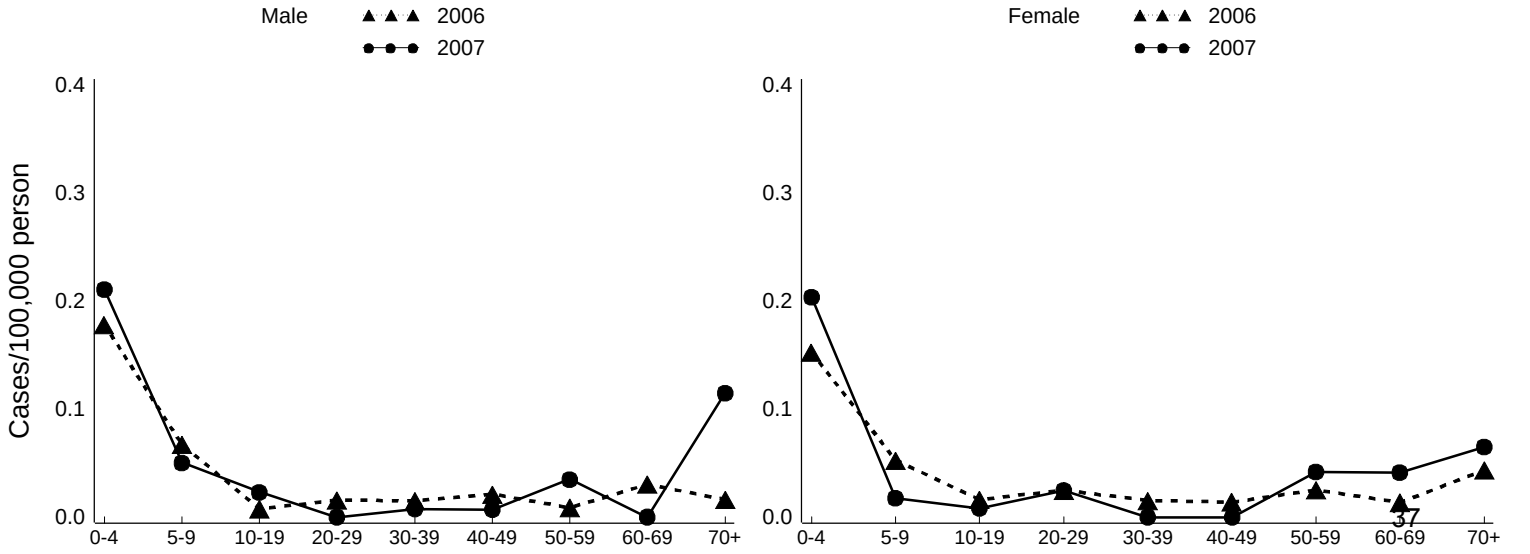


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	6	0.187	4	0.125	7	0.224
CO	0	0.000	2	0.077	1	0.055
CT	3	0.085	7	0.199	4	0.103
GA	21	0.231	15	0.165	17	0.194
MD	3	0.054	5	0.089	3	0.061
MN	8	0.156	5	0.097	4	0.086
NM	0	0.000	1	0.052	1	0.052
NY	5	0.116	1	0.023	4	0.109
OR	12	0.330	6	0.165	5	0.128
TN	5	0.084	11	0.184	9	0.181
ALL	63	0.140	57	0.127	56	0.131

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

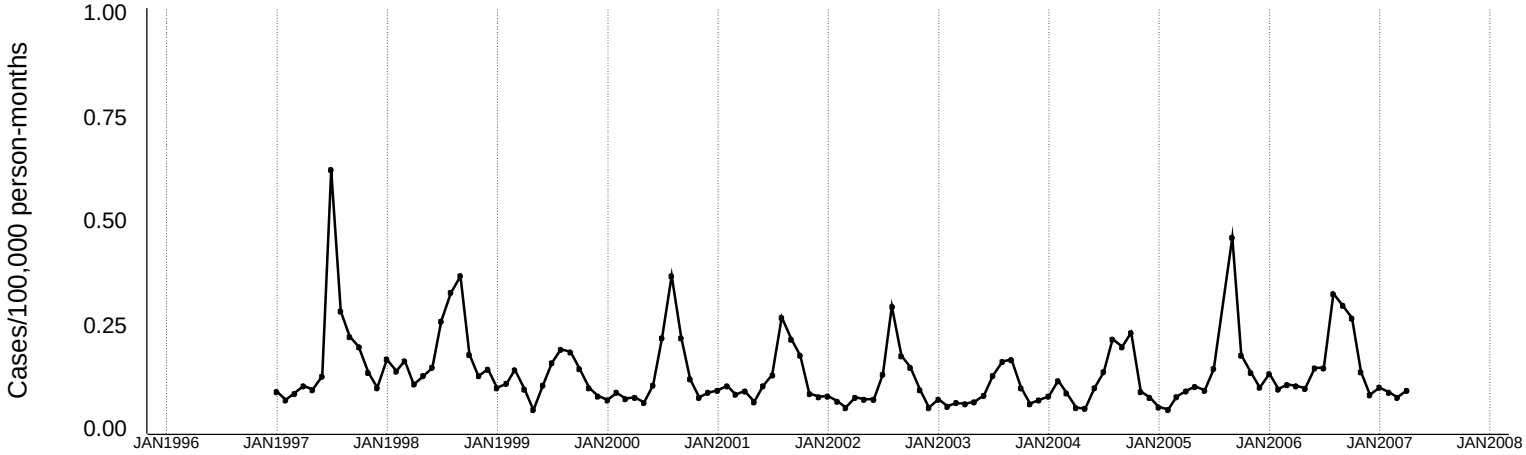
Calendar year through April: Rates for 2006 and 2007 by age group and sex



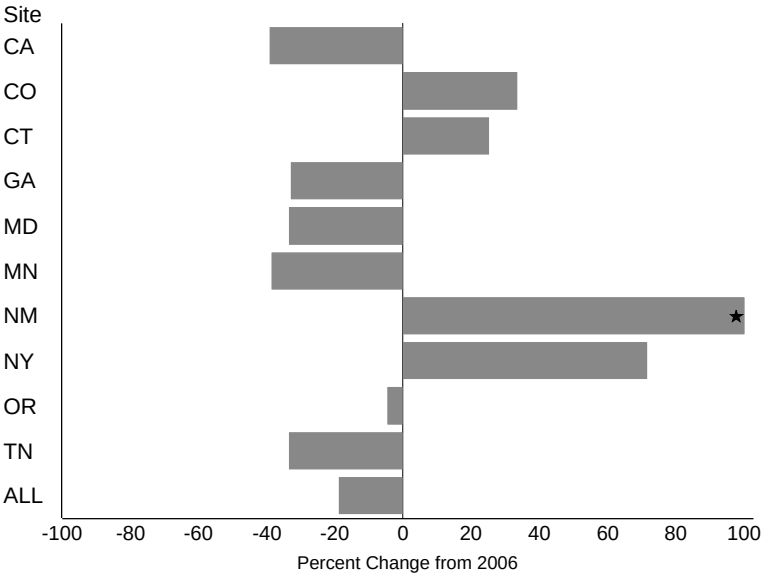
Data source: Preliminary FoodNet data, subject to change, not for public distribution. Report date: 29-June-2007

Cryptosporidium

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

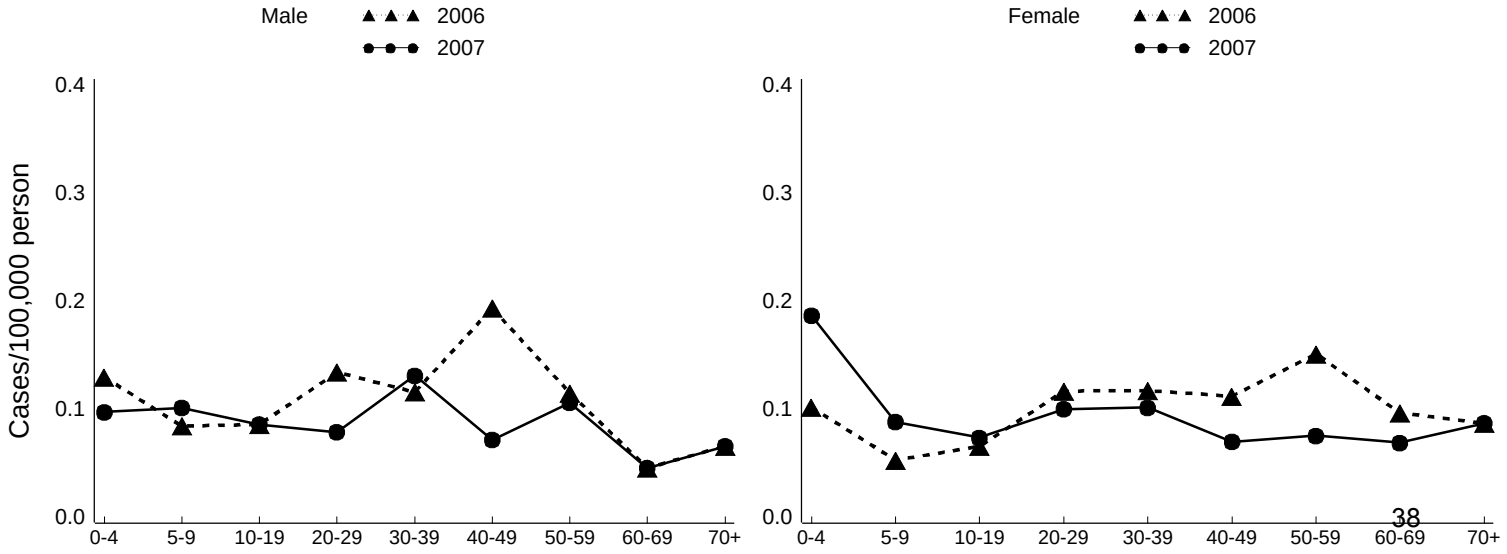


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	11	0.343	18	0.561	16	0.419
CO	4	0.155	3	0.116	3	0.133
CT	10	0.285	8	0.228	5	0.143
GA	37	0.408	55	0.606	39	0.436
MD	6	0.107	9	0.161	6	0.115
MN	37	0.721	60	1.169	36	0.714
NM	16	0.830	6	0.311	4	0.190
NY	12	0.279	7	0.162	7	0.169
OR	22	0.604	23	0.632	14	0.389
TN	6	0.101	9	0.151	9	0.174
ALL	161	0.358	198	0.440	139	0.314

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex

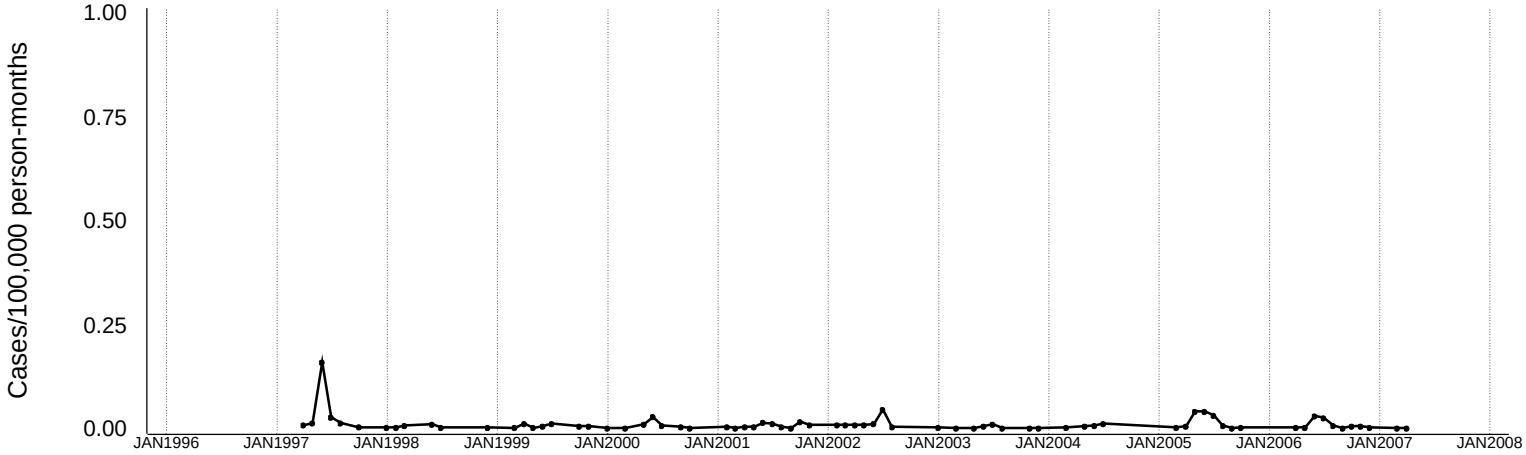


Data source: Preliminary FoodNet data, subject to change, not for public distribution.

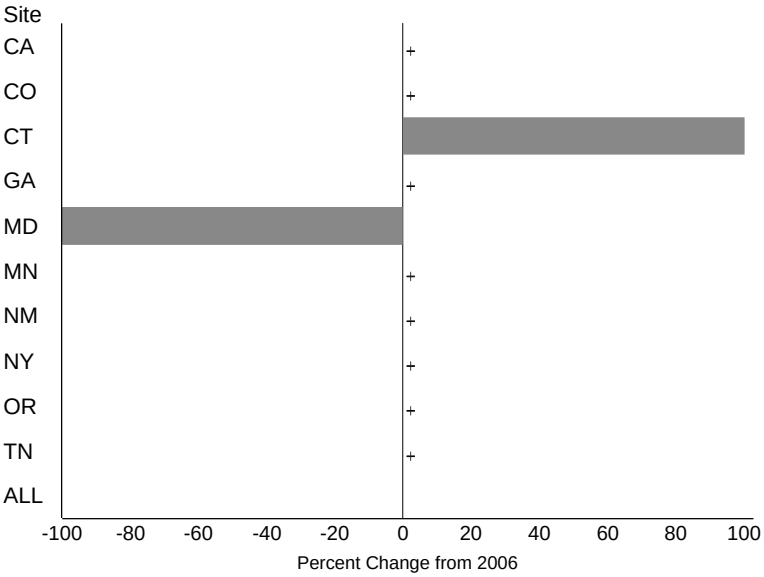
Report date: 29-June-2007

Cyclospora

Incidence rate of culture-confirmed infections, FoodNet sites, January 1996-April 2007



Calendar year through April: Percent change in rates between 2006 and 2007 by site

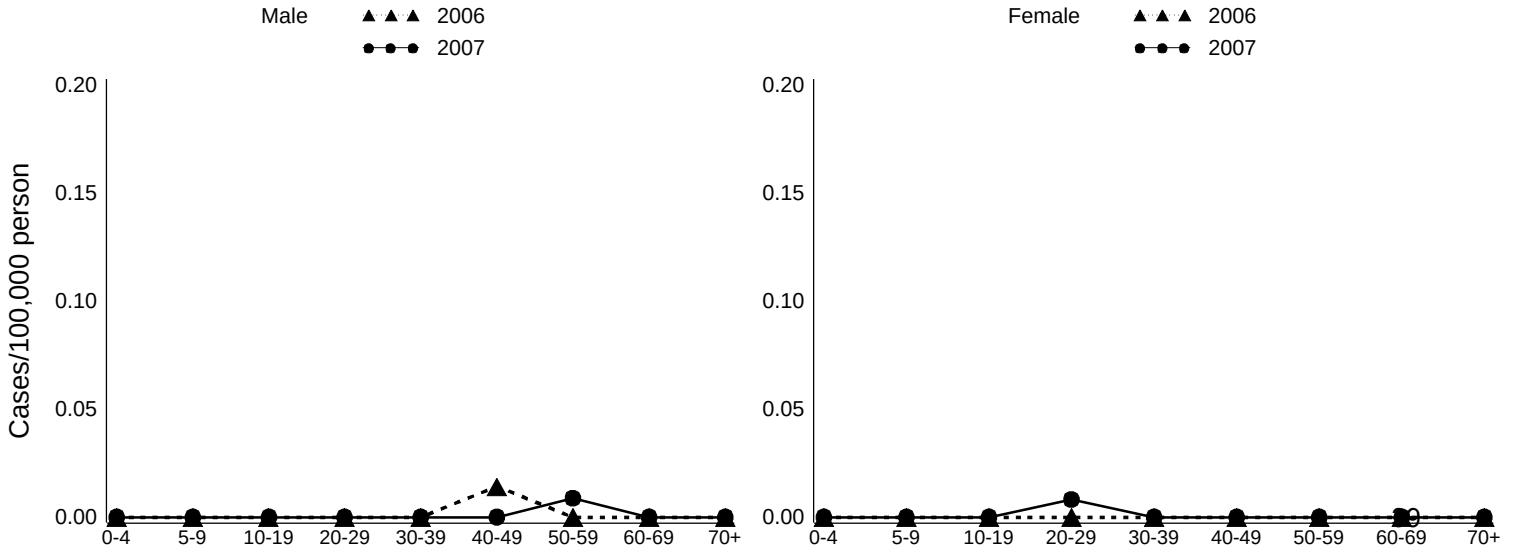


* Change exceeds 100%, +Percent increase cannot be calculated because 2006 rate is 0

	2007		2006		5 year mean*	
Site	Cases	Rate^	Cases	Rate^	Cases	Rate^
CA	0	0.000	0	0.000	1	0.013
CO	0	0.000	0	0.000	0	0.008
CT	2	0.057	1	0.028	1	0.029
GA	0	0.000	0	0.000	2	0.023
MD	0	0.000	1	0.018	1	0.011
MN	0	0.000	0	0.000	0	0.000
NM	0	0.000	0	0.000	0	0.017
NY	0	0.000	0	0.000	0	0.000
OR	0	0.000	0	0.000	0	0.000
TN	0	0.000	0	0.000	0	0.007
ALL	2	0.004	2	0.004	5	0.011

*year 2002-2006 except for NM (2004-2006)
^cases/100,000 person

Calendar year through April: Rates for 2006 and 2007 by age group and sex



Data source: Preliminary FoodNet data, subject to change, not for public distribution.

Report date: 29-June-2007

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Year, 1998-2006
(Data accessed June 28th, 2007 (eFORS 2) PRELIMINARY DATA)

	Outbreaks reported	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
1998	231	11.15	19	85 (37)	128 (55)	149 (65)
1999	258	8.54	17	117 (45)	135 (52)	162 (63)
2000	290	9.46	29	150 (51)	132 (46)	174 (60)
2001	266	7.62	25	200 (75)	154 (58)	164 (62)
2002	250	5.89	18	188 (75)	129 (52)	165 (66)
2003	226	5.40	19	191 (85)	118 (52)	142 (63)
2004	256	5.80	18	220 (86)	150 (59)	151 (59)
2005	209	4.60	19	182 (87)	160 (64)	148 (71)
2006	291	6.47	15	244 (84)	153 (53)	187(64)

*Known etiology- Confirmed and suspected etiologies **Known vehicle- Any vehicle reported ***Restaurant-associated- food item was prepared in a restaurant or deli

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

Table 2. Summary of Foodborne Outbreaks with ≥ 10 ill, by FoodNet Year, 1998-2006
(Data accessed June 28th, 2007 (eFORS 2) PRELIMINARY DATA)

	Outbreaks reported	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
1998	104	5.02	37	48 (46)	67 (64)	48 (46)
1999	110	4.25	33	78 (71)	60 (55)	49 (45)
2000	131	4.27	40	94 (72)	70 (53)	50 (38)
2001	129	3.70	47	110(85)	79 (61)	60 (47)
2002	129	3.40	31	188 (75)	66 (51)	67 (52)
2003	103	2.46	35	98 (95)	54 (52)	51 (50)
2004	125	2.84	32	113 (90)	81 (65)	60 (48)
2005	104	2.31	33	90 (87)	68 (65)	55 (53)
2006	147	3.27	25	128 (87)	84 (57)	84 (57)

*Known etiology- Confirmed and suspected etiologies **Known vehicle- Any vehicle reported ***Restaurant-associated- food item was prepared in a restaurant or deli

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Site, 2007

(Data accessed July 5th, 2007 (eFORS 2) PRELIMINARY DATA)

State	Outbreaks reported	2005 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Etiology (confirmed and suspected)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	3	3,206,118	0.94	18	2 (67)	Bacillus Cerus/ Clostridium perfringens(1) *Campylobacter*(1)	1 (33)	2(67)
CO	6	2,586,568	2.32	12	4 (67)	Norovirus(4)	2 (33)	5 (75)
CT	9	3,510,297	2.56	12	7 (78)	Norovirus (6) STEC O157 (1)	7 (78)	7 (83)
GA	12	9,072,576	1.32	18	10 (83)	Clostridium perfringens(3), Norovirus(4), *Salmonella*(3)	5(42)	5 (25)
MD	14	5,600,388	2.50	22	8 (57)	Norovirus(5), *Campylobacter*(1) Clostridium perfringens(1) *Salmonella*(1)	8(57)	7 (42)
MN	19	5,132,799	3.70	9	14 (74)	Hep A(2), Norovirus(5), Clostridium perfringens(3), *Salmonella*(2), STEC O157 (1) Scromboid toxin(1)	4 (21)	13 (65)
NM	0	1,928,384	0.00	0	- (-)		- (-)	-(-)
NY	4	4,307,911	0.93	16	1(25)	Norovirus(1)	3(75)	0 (-)
OR	6	3,641,056	1.65	37	6 (100)	Clostridium perfringens (1), Norovirus (5)	- (-)	2(33)
TN	14	5,962,959	2.35	15	13 (93)	Norovirus (9) *Salmonella*(1), Bacillus Cerus(1) Staph aureus(2)	3 (21)	11 (77)
Total	**87**	**44,949,056**	**1.94**	**16**	**56(77)**		**33 (39)**	**52 (60)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

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Table 2. Summary of Foodborne Outbreaks with ≥10 ill, by FoodNet Site, 2007

*** Data accessed July 5th 2007 (eFORS 2)**
*** Preliminary data**

State	Outbreaks reported	2005 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	1	3,206,118	0.31	44	0(-)	0 (-)	0(-)
CO	3	2,586,568	1.16	17	2 (67)	2 (67)	2 (67)
CT	4	3,510,297	1.14	21	2 (50)	3 (75)	3 (75)
GA	5	9,072,576	0.55	35	4 (80)	3(60)	0 (-)
MD	6	5,600,388	1.07	47	4 (67)	2 (33)	3 (50)
MN	5	5,132,799	0.97	21	4 (60)	3 (60)	2 (40)
NM	0	1,928,384	-	-	-(-)	0 (-)	-(-)
NY	3	4,307,911	0.70	18	1 (33)	2 (67)	0 (33)
OR	5	3,641,056	1.37	43	5 (100)	0 (-)	1 (20)
TN	8	5,962,959	1.34	22	7 (88)	1 (13)	5 (63)
2006 Total	**40**	**44,949,056**	**0.89**	**27**	**29 (73)**	**16 (40)**	**16 (40)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

HUS Surveillance, 2006 Table A

as of 7/2/07

Site	In catchment (N=99)												In catchment (N=99)											
	<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo		<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo	
	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
CA	0	--	5	0 (0)	2	0 (0)	0	--	2	1 (50)	0	--	0	0.0	5	2.9	2	1.0	0	0.0	2	0.1	0	0.0
CO	0	0 (0)	5	0 (0)	0	--	0	--	0	--	0	--	0	0.0	5	3.1	0	0.0	0	0.0	0	0.0	0	0.0
CT	0	--	3	0 (0)	1	0 (0)	1	0 (0)	0	--	0	--	0	0.0	3	1.8	1	0.4	1	0.4	0	0.0	0	0.0
GA	1	0 (0)	6	0 (0)	1	0(0)	0	--	2	0 (0)	0	--	1	0.7	6	1.1	1	0.2	0	0.0	2	0.0	0	0.0
MD	0	--	3	0 (0)	0	--	0	--	0	--	1	1 (100)	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	1	0.1
MN	0	--	9	0(0)	3	0 (0)	1	0 (0)	3	0 (0)	3	1 (33)	0	0.0	9	3.4	3	0.9	1	0.3	3	0.1	3	0.4
NM	0	--	4	0 (0)	0	--	1	0 (0)	0	--	0	--	0	0.0	4	3.7	0	0.0	1	0.7	0	0.0	0	0.0
NY	0	--	0	--	1	0 (0)	1	0 (0)	2	1 (50)	1	0 (0)	0	0.0	0	0.0	1	0.4	1	0.3	2	0.1	1	0.1
OR	0	--	5	0 (0)	0	--	2	0 (0)	3	0 (0)	0	--	0	0.0	5	2.8	0	0.0	2	0.8	3	0.1	0	0.0
TN	1	0(0)	19	0(0)	3	0(0)	3	0 (0)	1	0 (0)	0	--	1	1.3	19	6.2	3	0.8	3	0.8	1	0.0	0	0.0
Total	**2**	0 (0)	**59**	0 (0)	**11**	**0 (0)**	**9**	**0 (0)**	**13**	**2 (15)**	**5**	**2 (40)**	**2**	0.30	**59**	2.45	**11**	0.38	**9**	0.29	**13**	0.05	**5**	0.1

*per 100,000 persons

Results of microbiologic testing for STEC infection among HUS cases, 2006

as of 7/2/07

	Site																							
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Diarrhea in 3 weeks before HUS diag./ Total patients	7/9	(78)	2/5	(40)	5/5	(100)	10/10	(100)	4/4	(100)	18/19	(95)	4/5	(80)	4/5	(80)	10/10	(100)	27/27	(100)	**91/99**	(92)
Stool specimen obtained/ Patients with diarrhea	7/7	(100)	1/2	(50)	5/5	(100)	10/10	(100)	3/4	(75)	18/18	(100)	4/4	(100)	4/4	(100)	10/10	(100)	25/27	(93)	**87/91**	(96)
E. coli O157 Isolation																						
Stool cultured for E. coli O157/ Patients with stool specimens obtained	7/7	(100)	1/1	(100)	3/5	(60)	10/10	(100)	3/3	(100)	18/18	(100)	4/4	(100)	4/4	(100)	10/10	(100)	24/25	(96)	**84/87**	(97)
E. coli O157 isolated from stool/ Patients with stool cultured for O157	5/7	(71)	0/1	(0)	3/3	(100)	6/10	(60)	2/3	(67)	15/18	(83)	3/4	(75)	3/4	(75)	7/10	(70)	16/24	(67)	**60/84**	(71)
Shiga toxin + Questions																						
Stool tested for Shiga toxin/ Patients with stool specimen obtained	5/7	(71)	1/1	(100)	3/5	(60)	10/10	(100)	1/3	(33)	18/18	(100)	4/4	(100)	0/4	(0)	3/10	(30)	9/25	(36)	**54/87**	(62)
Stool Shiga toxin-positive/ Patients with stool tested for Shiga toxin	5/5	(100)	1/1	(100)	1/3	(33)	5/10	(50)	1/1	(100)	14/18	(78)	3/4	(75)	0/0	--	1/3	(33)	9/9	(100)	**40/54**	(74)
Non-O157 Isolation																						
Stool tested for non-O157 STEC/ Patients with stool tested for Shiga toxin	0/5	(0)	1/1	(100)	1/3	(33)	7/10	(70)	1/1	(100)	3/18	(17)	1/4	(25)	0/0	--	0/3	(0)	0/9	(0)	**14/54**	(26)
Non-O157* STEC isolated from stool/ Stool tested for non-O157 STEC	0/0	--	1/1	(100)	0/1	(0)	0/7	(0)	0/1	(0)	1/3	(33)	0/1	(0)	0/0	--	0/0	--	0/0	--	**2/14**	(14)
Serum																						
Serum Tested/ Serum Collected	2/2	(100)	1/1	(100)	3/3	(100)	3/4	(75)	0/0	--	5/5	(100)	0/1	(0)	0/1	(0)	6/7	(86)	11/11	(100)	**31/35**	(89)
O157/Tested	2/2	(100)	1/1	(100)	2/3	--	1/3	(33)	0/0	--	2/5	(40)	0/0	--	0/0	--	6/6	(100)	9/11	(82)	**23/31**	(74)
Total Stool																						
O157, non-O157 STEC, Shiga toxin +/ Total stool specimens tested	7/7	(100)	1/1	(100)	5/5	(100)	10/10	(100)	3/3	(100)	18/18	(100)	5/5	(100)	5/5	(100)	10/10	(100)	26/26	(100)	**90/90**	(100)

Non-O157 identified:

*Culture:O121 (1), O145 (1)

HUS Surveillance, 2007 Table A

as of 7/2/07

Site	In catchment (N=25)												In catchment (N=25)											
	<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo		<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo	
	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
CA	2	0 (0)	1	0 (0)	0	--	0	--	0	--	0	--	2	4.7	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
CO	0	--	1	0 (0)	0	--	0	--	0	--	0	--	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
CT	0	--	0	--	0	--	1	0 (0)	0	--	0	--	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0
GA	0	--	2	0 (0)	0	--	1	0 (0)	0	--	0	--	0	0.0	2	0.4	0	0.0	1	0.2	0	0.0	0	0.0
MD	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MN	0	--	0	--	1	0 (0)	0	--	0	--	1	0 (0)	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.1
NM	0	--	0	--	0	--	0	--	0	--	0	--	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NY	2	0 (0)	2	0 (0)	0	--	0	--	0	--	2	0 (0)	2	4.3	2	1.1	0	0.0	0	0.0	0	0.0	2	0.2
OR	0	--	4	0 (0)	0	--	0	--	1	0 (0)	0	--	0	0.0	4	2.2	0	0.0	0	0.0	1	0.0	0	0.0
TN	0	--	3	0 (0)	0	--	1	0 (0)	0	--	0	--	0	0.0	3	1.0	0	0.0	1	0.3	0	0.0	0	0.0
Total	**4**	**0 (0)**	**13**	**0 (0)**	**1**	**0 (0)**	**3**	**0 (0)**	**1**	**0 (0)**	**3**	**0 (0)**	**4**	0.66	**13**	0.54	**1**	0.03	**3**	0.10	**1**	0.00	**3**	0.04

*per 100,000 persons

Results of microbiologic testing for STEC infection among HUS cases, 2007

as of 7/2/07

	Site																							
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Diarrhea in 3 weeks before HUS diag./	1	(33)	1	(100)	1	(100)	3	(100)	0	--	2	(100)	0	--	5	(83)	5	(100)	4	(100)	**22**	(88)
Total patients	3		1		1		3		0		2		0		6		5		4		**25**	
Stool specimen obtained/	1	(100)	0	(0)	1	(100)	3	(100)	0	--	2	(100)	0	--	5	(100)	1	(20)	4	(100)	**17**	(77)
Patients with diarrhea	1		1		1		3		0		2		0		5		5		4		**22**	
E. coli O157 Isolation																						
Stool cultured for E. coli O157/	1	(100)	0	--	1	(100)	2	(67)	0	--	2	(100)	0	--	5	(100)	1	(100)	4	(100)	**16**	(94)
Patients with stool specimens obtained	1		0		1		3		0		2		0		5		1		4		**17**	
E. coli O157 isolated from stool/	1	(100)	0	--	1	(100)	1	(50)	0	--	0	(0)	0	--	3	(60)	1	(100)	2	(50)	**9**	(56)
Patients with stool cultured for O157	1		0		1		2		0		2		0		5		1		4		**16**	
Shiga toxin + Questions																						
Stool tested for Shiga toxin/	1	(100)	0	--	0	(0)	1	(33)	0	--	2	(100)	0	--	3	(60)	0	(0)	2	(50)	**9**	(53)
Patients with stool specimen obtained	1		0		1		3		0		2		0		5		1		4		**17**	
Stool Shiga toxin-positive/	1	(100)	0	--	0	--	1	(100)	0	--	0	(0)	0	--	1	(33)	0	--	1	(50)	**4**	(44)
Patients with stool tested for Shiga toxin	1		0		0		1		0		2		0		3		0		2		**9**	
Non-O157 Isolation																						
Stool tested for non-O157 STEC/	0	(0)	0	--	0	--	1	(100)	0	--	0	(0)	0	--	2	(67)	0	--	0	(0)	**3**	(33)
Patients with stool tested for Shiga toxin	1		0		0		1		0		2		0		3		0		2		**9**	
Non-O157* STEC isolated from stool/	0	--	0	--	0	--	0	(0)	0	--	0	--	0	--	0	(0)	0	--	0	--	**0**	(0)
Stool tested for non-O157 STEC	0		0		0		1		0		0		0		2		0		0		**3**	
Serum																						
Serum Tested/	1	(100)	0	--	0	--	0	(0)	0	--	1	(100)	0	--	0	--	0	--	0	--	**2**	(50)
Serum Collected	1		0		0		2		0		1		0		0		0		0		**4**	
O157/Tested	0	(0)	0	--	0	--	0	--	0	--	1	(100)	0	--	0	--	0	--	0	--	**1**	(50)
	1		0		0		0		0		1		0		0		0		0		**2**	
Total Stool																						
O157, non-O157 STEC, Shiga toxin +/	2	(100)	0	--	1	(100)	2	(100)	0	--	2	(100)	0	--	5	(100)	1	(100)	4	(100)	**17**	(100)
Total stool specimens tested	2		0		1		2		0		2		0		5		1		4		**17**	

Non-O157 identified:

*Culture: